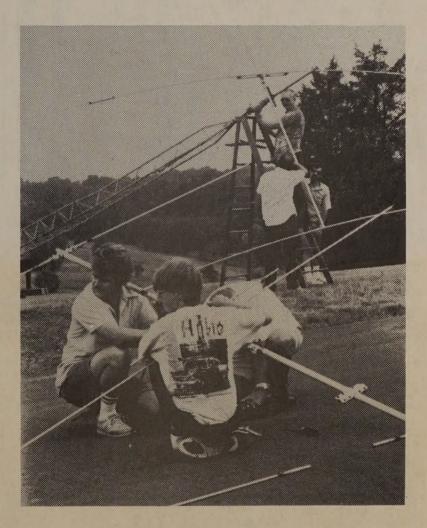


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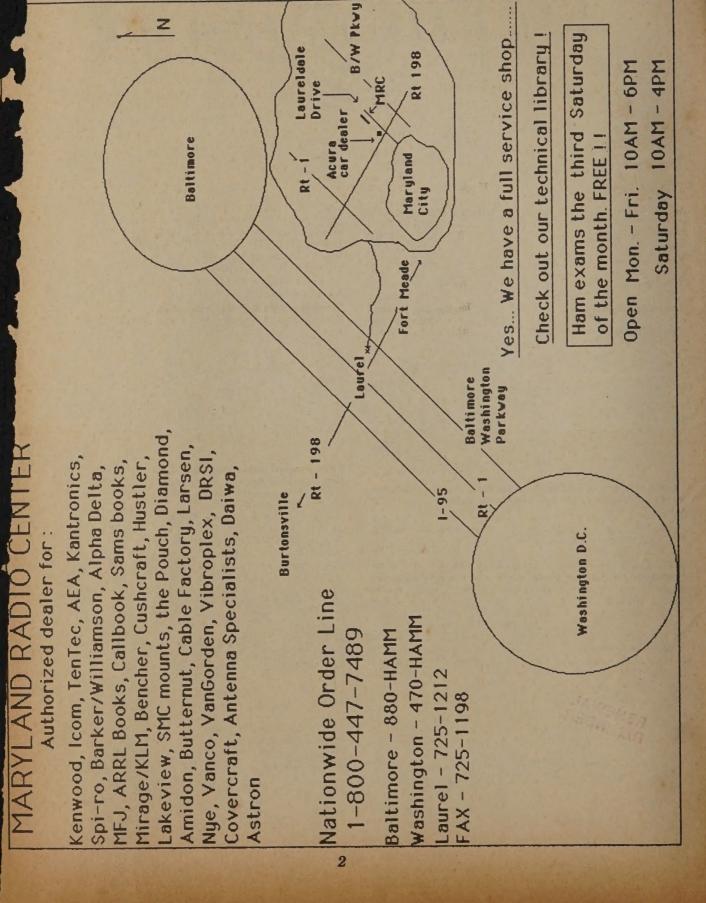






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AUTO-CALL

Official Journal of the Foundation for Amateur Radio

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EDITORIAL

INDEX

We have a most interesting Guest Editorial
this month. Be sure to read it - on page 31.
David ("Spike") Boyd - K9MX presents some
very convincing statistics to show that Amateur
Radio is NOT dying but is actually progressing
very well, especially when you consider the
percentage of the U.S. population who are
licensed Amateurs. In 1934 there was 1 ham
for every 2,724 people in the U.S. In the next
30 years there was a tremendous surge of
growth. There were some humps and bumps
in the statistical curve in the 1960s and 1970
but the percentages continued to climb at a
very healthy rate. By 1989 there was 1 ham
for every 535 people in the U.S. Admittedly,
we are a still a pretty exclusive fraternity but
we certainly are not dying; in fact, our
GROWTH is quite impressive.

Boyd suggests we should "stop playing into the hands of those who (would) lay claim to our spectrum by suggesting - falsely - that we are anything but a robust, growing hobby." And he says we should, "blow our own horns, both about what we do for the public and about how much we're growing."

Obviously one of our greatest need is to educate the public and our political representatives about the true nature and value of Amateur Radio. And the time to do that education is while thing are running smoothly. I'm not much for running to my congressmen every time we have some little problem, but I do believe the current House Bill HR-73 offers a good opportunity to put in a good word for Amateur Radio. All the bill asks is protection from losing Amateur frequencies. If the FCC feels some specific frequencies must be reassigned, then other comporable frequencies should replace them. If you haven't already written a letter to your congressmen and representatives, do it today. Use your response to this bill to protect our frequencies and, at the same time, to educate them about the virtues if Amateur Radio.

Hold off on writing anything right now about the proposed Fees for licenses. We hope that problem is being resolved. But standby for update information. There are a lot of things we don't like about this proposal.

Editor - K4LMB

ARRL REPORT DX COLUMN	1
FCC HIGHLIGHTS	

SRAM - Amateur Radio in the USSR
TRAINING
VOLUNTEER EXAMINER CO-OP.
WANT ADS
49

SPECIAL FEATURES

COLUMNS

Guest Editorial		31
Ham of the Month, KI4MB	11 11 15	28
Maryland Amateur Radio Week		27
Operation Bay Swim		19
Recognitions		26
Silent Keys		26

CLUB REPORTS

Anne Arundel Radio Club	45
Antietam Radio Association	40
Department of State ARC	46
Herndon Repeater Group	36
Laurel Amateur Radio Club	39
MADRAS	46
Metropolitan Communications	35
Metrovision - Amateur TV	34
Montgomery Amateur Radio Club	37
Pentagon Amateur Radio Club	41
Quarter Century Wireless Assn	38
Southern Maryland ARC	33
St. Mary's County ARA	42
Vienna Wireless Society	43
Woodbridge Wireless, Inc.	44

ADVERTISERS

EEB Electronic Equipment Bank	22
G & G	48
Ham Radio Outlet	6
Maryland Radio	. 2
R.F. Connection	8
SkyPoint Ham Center	53
Virginia Micro System	44
Williams Radio	30

Coming Events

Jun 29	WVA ARRL State Convention
Jul 6-7 Jul 27 Jul 28	West Virginia State Convention, Jackson's Mill ARRL Educational Workshop, Goddard SFC (See page 13) BRATS Maryland Hamfest, Timonium (See flyer on page 31)
Aug 4 Aug 9 Aug 17-18 Aug 23-25 Aug 25	Winchester Hamfest, Berryville, VA See flyer on page 35) Gallups Island Radio Association National Reunion, Minneapolis, MN Maryland-DC QSO Party (See page 45) ARRL National Convention, Saginaw, MI Southern Patuxent Hamfest, Upper Marlboro, MD (See page 36)
Sep 8 Sep 14-16 Sep 21-22 Sep 21-22 Sep 27-28 Sep 31	Gaithersburg F.A.R.FEST, Foundation for Amateur Radio. (See page 8) VHF QSO Party ARRL Roanoke Division Convention, Virginia Beach, VA York Hamfest, York, Pennsylvania QCWA National Convention, Canton, OH (See page 46) Shelby, NC Hamfest
Oct 13	Howard County CARA Hamfest
Nov 2-4 Nov 16-18 Nov 24	CW Sweepstakes Phone Sweepstakes Mason-Dixon Hamfest, Westminster, MD
Dec 6-8 Dec 14-15	160 Meter Contest 10-Meter Contest

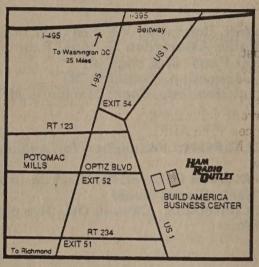
Please keep Auto-Call advised of important Coming Events. We are anxious to provide our readers with timely information and help you avoid possible conflicts when scheduling activities.

We can use all the help we can get!



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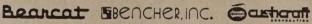




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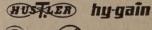




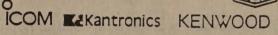














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FCC HIGHLIGHTS

by Bill Grenfell W4GF

". . . has filed a massive document with the FCC requesting a secondary allocation for the Amateur Radio Service at 216-222 MHz. ARRL contends "This allocation would provide reaccommodation for those present and future wideband data inter-city links and other point-to-point fixed Amateur stations which stand, by August of this year, to be displaced from the 220-222 MHz band as a result of the reallocation of that segment in Docket 87-14." "The League believes that Amateurs can peacefully co-exist with present and future planned users of the band. "The Commission may also have this belief since it was they who initially suggested this approach. The 216 to 220 MHz band is currently allocated to various mobile and fixed services. The ARRL petition asks that the 216-220 MHz segment only be used by Amateurs for point-to-point fixed operations on a non-interference basis."

(W5YI Report, July 1, 1991)

Amateur licensee Blackwell - N5GAR, and Jarrett - K5FOG, "have filed reply comments with FCC on their petition which seeks to add subparagraph "g" to Amateur rule paragraph 97.205. "This would hold the originator of a prohibited communication primarily responsible for automatic retransmission, with the licensee of a repeater (or packet digipeater) having secondary responsibility." The new paragraph "g" does not eliminate a trustee's (or intermediary packet station's) responsibility for insuring proper station operation. It is intended as protection from blame for those instantaneous retransmitted operations over which the repeater owner has no effective control. They agree with the Motor City Radio Club that strict enforcement of the present rules can lead to the closing down of repeaters because licensees do not want to be held responsible for things over which they do not have complete control.

In response to an inquiry by a U.S. Senator, "... "FCC Private Radio Bureau Deputy Chief Beverly Baker and Chief Ralph Haller - N4RH have affirmed that new power limits on hams or

frequency reallocations are not planned." One Amateur wrote: "I resent the fact that commercial interests are trying to usurp the radio frequencies that have been allocated to ham radio enthusiasts. These interest have apparently convinced the FCC that they are entitled to them. The individual ham cannot compete with the big money and lobbying of greedy interests. "Another complaint is the reduction of power (watts out) the FCC is surreptitiously planning for the ham. cutting the power they can effectively stop us dead in our tracks especially in the low ebb of the sunspot cycle." The response to the Senator was apparently sent to the Senator by Baker on Haller's behalf.

(W5YI Report, July 1, 1991)

"At an open meeting June 13, the FCC adopted its recommendations for U.S. proposals to the 1992 World Administrative Radio Conference. The recommendations, contained in a Report in General Docket 89-554, include the realignment of the Amateur and broadcasting bands at 7 MHz to eliminate the overlap between the two services, while retaining 300 kHz of bandwidth for Amateurs by shifting the Amateur allocation down 100 kHz and broadcasters up 100 kHz. The 40-meter recommendation is similar to what the U.S. proposed at the 1979 WARC, but had to settle for the status quo when there was insufficient support for the proposal in other countries. In fact. WARC'-79 the Amateur Service held onto its Region 2 allocation of 7100 to 7300 kHz by only a slender thread. The new recommendation still faces an uphill battle abroad: spectrum below 10 MHz houses many competing interests, and reductions in existing allocations to the fixed services (which is likely to bear the brunt of any broadcasting expansion) will be resisted by many countries' delegations. Even if adopted, a number of years would pass before implementation, the U.S. is proposing an effective date in the year 2007!

(The ARRL Letter, June 27, 1991)

Gf

FCC Highlighst - Continued

FCC CITES 57TH ANNIVERSARY.

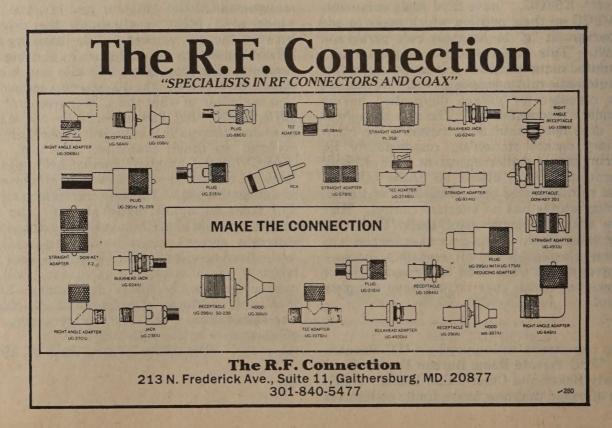
Here is the statement of FCC Chairman Alfred C. Sikes on the 57th anniversary of the Communications Act of 1934:

"On June 19, 1934, President Franklin D. Roosevelt approved legislation establishing the Federal Communications Commission (FCC). The seven FCC commissioners were nominated, confirmed, and met for an initial organizational meeting about a month later. They began a process that continues, of course, today.

"In 1934, the FCC had 233 employees and a budget of \$1.14 million, to regulate a broadcast business which then comprised 623 radio stations, and a telephone industry with 14 million phones and a total revenue of \$940 million. Today, the FCC has two fewer members [commissioners], about eight times more staff, and slightly more than ten times the budget dollars. Specifically, in 1991, we had 1763 authorized staff and an appropriation of \$116.8 million.

"The communications industry, however, has grown substantially more. At present, there are nearly 20 times more broadcast stations, and telephone revenues this year should total about \$175 billion. In addition, there are an array of other enterprises -- communications satellites, cable television, cellular mobile radiotelephone, for example -- unimagined in 1934.

"What has not changed over the past half century has been the hard work and dedication manifest on the part of the Commiddion's staff. Encouraging the development of competitive, innovative, and excellent American communications remains a fundamental FCC policy goal. Fifty-seven years of service to the American public has established a proud tradition at the Commission -- one which we all hope to remain faithful to in coming years."



American Radio Relay League Report

By John Swafford -- W4HU

This ARRL Report provides a brief summary of information published in the ARRL LETTER and other reports. The LETTER provides timely news of interest to active Radio Amateurs. Any League member may subscribe to the ARRL LETTER.

ALL ABOARD THE QUEEN MARY.

On April 22, 1979, California Angels outfielder Joe Rudi - WA6PVA (now NK7U), made the first QSO from the new shipboard W6RO, amid a champagne celebration by some 500 people, culminating 12 years of work led by HamVention Specific Achievement Award winner Nate Brightman, K6OSC.

The Queen Mary was bought by the City of Long Beach in 1967 and Brightman and his crew immediately began thinking about an Amateur station. After refurbishing, the ship slipped into her berth in 1971, and in 1974 Brightman submitted his proposal to the director of Queen Mary operations, suggesting that the ship's original radio room be restored to its original configuration. The go-ahead came in 1978. (A story about the ship and its Amateur Radio station appeared in QST for August, 1979.)

"To be recognized by my peers in this way is truly the climax to the 35 years I have spent enjoying my hobby of Amateur Radio and adds so much to the pleasure I have received from it," Brightman, 73, said in accepting his award.

"Although I can take credit for the idea of establishing an Amateur Radio station aboard the Queen Mary and getting it built, the secret behind having a successful project such as this (or any other) is to gather around you the people who you know have the skills necessary to bring your project to a successful conclusion, and who, through their efforts, make you look so good!

"Although many of our club members work hard on this project, I particularly want to recognize my assistant, Bill Holder, W6TNB, who devotes many hours each week to the operation of W6RO, and without whose help I would be lost.

"That many Amateurs love this hobby and are willing to go to great lengths to promote it is evident in the fact that so many amateurs (at the present time 100, but in the past as many as 160) are willing to spend four hours at least once a month to operate the station and talk to the tourists who come to the door of the Wireless Station.

"Recognition is also due the manufacturers, such as Cushcraft, ICOM, Kenwood, Yaesu, AEA, MFJ, and many others who equipped the station.

"At the present time, the Disney Company, who operates the Queen Mary-Spruce Goose complex, is considering developing an Epcottype park to be called Disney Sea, and which they have said will include the Queen Mary. This will give our station even more public exposure," Brightman said.

STALKING THE ULTIMATE DX.

"Ever since the first Sputnik, Amateur Radio operators looked to the heavens and dreamed of the ultimate DX -- to talk to someone in space," Lou McFadin, W5DID, told the HamVention. "This marvelous capability began to evolve when the first Oscar satellites were launched by the pioneers of Amateur Radio in space.

"The dream was first realized with astronaut Owen Garriott - W5LFL aboard Skylab making contact with hams. Owen was followed by Tony England - W0ORE aboard the Space Shuttle, and then by Ron Parise - WA4SIR on STS-35, and most recently by the whole crew of STS-37.

"With each flight, additional equipment was added. Slow scan television, packet radio, and then fast scan television have enabled us to expand the number and the form of contacts. International relay stations now relay conversations to U.S. school students from the astronauts as [the Shuttles] cruise over Australia and Brazil.

"The Shuttle Amateur Radio Experiment program (SAREX, as it's called) is now regarded as an important part of NASA's public affairs and education programs.

ARRL Report - Continued

"This award symbolizes the recognition that Amateur Radio from space has come of age. It is an invaluable channel from the exciting world of space flight into the imagination of the young people throughout the world. In addition, it presents the opportunity for young people to learn about the ham radio community.

"For us hams, it is still the ultimate DX contact. To talk to travelers in space.

"These are all very important aspects of the SAREX program. It is now our task to learn how to use this tool properly. What is the proper balance between this educational aspect and the ultimate DX aspect? That is now the question we must decide. How will we use this new tool?

"This award belongs to many people who have worked hard to achieve the success of the SAREX program. They are too numerous to mention, but I will name the organizations—the Johnson Space Center Amateur Radio Club; the Motorola Amateur Radio Clubs of Schaumburg, Ill., and Fort Lauderdale, Fla.; AMSAT; ARRL; NASA; Panasonic; Heathkit; Robot Reserch; The Darome Connection; and many others," McFadin said.

SAN BERNARDINO AMATEURS AVOID RESTRICTIVE RULES.

Acting at the 11th hour, a group of San Bernardino, Calif. Amateurs prevented the enactment of a very restrictive antenna ordinance and won city approval of a more favorable ordinance.

The city staff had spent months drafting a new 400-page Development Code for San Bernardino, apparently without any input from Radio Amateurs. Before any Amateur was aware that it applied to antennas, the new code was approved by the city council on "first reading," meaning it would become final after just one more "reading."

As written, the code required a costly "design review" of each antenna by the city staff, and it limited antennas to a height of 35 feet. The draft ordinance also gave the city staff authority to forbid any antenna if there were RFI complaints from neighbors.

When local Amateurs learned of this, they had only two weeks before the ordinance was scheduled for final approval. The problem was

discussed at a meeting of the Citrus Belt Amateur Radio Club and a steering committee of four Amateurs was formed to work with the city.

The committee -- Bruce Scoles - WA6BYY, Ed Slaughter - N6IIE, Bert Trotier - N6YJA, and Jerry Williamson - KC6LHA -- quickly arranged to meet with the city council planning staff, the mayor, and each member of the city council. They explained Amateur Radio to each of them and submitted a draft of a more acceptable antenna ordinance.

On March 21 the council gave its final approval to the entire 400-page Development Code, and the hams had succeeded: the council unanimously amended the code to exempt from "design review" Amateur Radio antennas less than 30 ft long. The council also amended the design review standard on RFI to exclude antennas "exempted by federal regulation."

Also, a design standard requiring antennas to be "painted a single, neutral and non-glossy color (e.g. off white, cream, beige)" was rewritten to eliminate the paint requirement and allow other colors, including gray. (Thanks N6NB)

HEIL JOINS WEEKLY SATELLITE SHOW.

A new Amateur Radio show, "High Tech Heil," has been added to the QSO Amateur Radio network, a weekly satellite offering begun earlier this year by Jim Bass of Syracuse, N.Y. The show is hosted by Bob Heil - K9EID, of Marissa, Ill., the 1982 Dayton HamVention Amateur of the Year, and is shot in Heil's own Lab One studio.

"High Tech Heil" is directed to Amateurs, and video from individuals and clubs is sought for future programs. The show tours hamshacks, reviews books and catalogs, and discusses technical topics.

In addition to Heil, several other well-known Amateurs, including Gordon West - WB6NOA, Connie Dunn - KB5LES, and John Minke - N6JM, also plan to begin weekly radio broadcasts over the network.

QSO AMATEUR RADIO is transmitted every Monday through GTE's Spacenet 1 satellite, transponder 15, beginning at 2100 CDT (0200 UTC).

ARRL Report - Continued

EHRHORN TO TRAVEL TO SOVIET UNION. A ham radio entrepreneur will explore business opportunities in the Soviet Union. Dick Ehrhorn, W4ETO, founder and president of Ehrhorn Technological Operations (ETO) is scheduled to leave June 2, accompanied by wife Marilyn and daughter Kimberlee, KC6FJB. The Ehrhorns are traveling with a business group sponsored by Fund Intellect of Moscow and Provo, Utah.

"ETO makes sophisticated high power radio frequency amplifiers and generators," Ehrhorn said. "During a chance radio contact last fall with Valeri Gromov, UV3GM, I was surprised when he called me by name and said he was familiar with our company's products. He told me that he and two partners had just started a private business called Radio Communications and Computers, and had somehow acquired an ETO amplifier. It will be part of their exhibit this month at a large electronics trade fair in Moscow.

"Given their problems of securing hard currency to import Western products into the USSR, it sounds to me," Ehrhorn said, "as if Valeri, Gene, and Alexi have the true entrepreneurial spirit! It's not inconceivable that we'll find a market there for equipment ETO makes for medical and industrial users."

Ehrhorn looks forward to a personal bonus, too. "For decades," he said, "Soviet hams couldn't really talk with us -- just names and signal reports. But this week Valeri and Gene-RA3AA hand carried to Soviet officials my request for permission to operate Soviet Amateur Radio stations while we're in Moscow, and there's a good chance it will be granted.

"Who would have dreamed of that even five years ago?" Ehrhorn said.

PLEA BARGAIN IN INTERFERENCE CASE. An Ohio high school teacher and Amateur Radio operator has pleaded guilty to charges that in April he broadcast false distress signals over a Prince William County, Virginia, police radio frequency, and used an unauthorized credit card to buy radio equipment, according to The Washington Post.

James Haas, WT8Q, of Athens, Ohio, also was under suspicion for making similar distress calls in four communities in Kentucky and three in Ohio over a period of a year and a half.

Under a plea bargain Haas, 39, cannot now be charged with "any similar incidents" that took place in Virginia's eastern district, according to the Post. Haas, who has been free on \$100,000 bail, faces a maximum of 15 years in prison.

Haas, who pleaded guilty in U.S District Court in Alexandria, Virginia, reportedly purchased the radio equipment at a Vienna, Virginia (EEB) retail store.

Here is the latest (June 10) list of intruders in HF Amateur Radio bands that the ARRL has asked the FCC's Treaty Branch to pursue with the U.S. and other countries:

FREQ	MODI	E CONTENT
1801-25		Beacons
Various	PON/PXX	OTHR continuing problem
7002	F1B	Vladivostok Station "V"
14058	F1B	Chinese marker pulses, data
14075	F1B	Vietnam VRQ with traffic
18094	F1C	FR084, fax maps fm Argentina
18162	A1A	FDC3 with call tape
18167	A1A	Cuban CMU967 with traffic

COMMENT DATE ANNOUNCED.

The FCC on June 24 assigned the League's petition for access by Amateurs to 216 to 220 MHz RM number 7747. Interested persons have until July 24 to file statements opposing or supporting RM 7747. Operation would be limited to fixed, point-to-point circuits, and would be coordinated so as to avoid interference to primary occupants.

BRIEFS.

• New Jersey-to-Newington is a long way to drive for a pizza, but that's what four members of the North Jersey DX Association did on Saturday, June 8. KE2CG, KA2BZS, W2VT, and W2MIG came early and spent the day working with five Headquarters staffers processing March DXCC endorsement applications. The nine-person crew set a one-day record for processing endorsements, most of which were Honor Roll submissions.

"This was our second volunteer crew," 'Membership Services Manager Chuck Hutchinson - K8CH said. "The Connecticut DX Association helped out May 18, and both these groups did an exemplary job. These were trial runs and their success bodes well for the

ARRL Report - Continued

volunteer DXCC field checking program we aim to implement in the fall."

No more volunteer work crews are planned, in part because the DXCC backlog is now less than three months and shrinking daily.

Yes, the NJDXAers' "reward" for their efforts was pizza.

- Pope John Paul II has named Archbishop Roger Mahony W6QYI, who heads the largest Roman Catholic archdiocese in the United States, a cardinal. Archbishop Mahony, 55, was one of two Americans names on May 30 to be elevated in a ceremony at the Vatican on June 28. The Los Angeles Times called Mahony "a modern priest" who flies a helicopter as well as hamming. Mahony becomes one of the youngest of the church's 163 cardinals.
- "We're transmitting on all bands and we're here to help." W1AW operator Jeff Bauer WA1MBK, received a phone call one morning from the FCC Monitoring Station in Allegan, Mich. "It was spooky," Bauer said. Actually, the FCC engineer on duty was calling to get W1AW's geographic coordinates, so the station's signal -- plenty strong on a number of bands -- could be used in calibrating the monitoring station's HF direction finding equipment.
- ARRL HQ has a job opening for a W1AW Operator. The successful candidate must be able to work evenings and weekends without direct supervision, be skilled in the use of IBM compatible computers, and be able to trouble-shoot and repair electronic equipment. Starting salary range is \$17,433 to \$19,188. For more information, contact Acting Chief Operator Jeff Bauer WA1MBK at 203-666-1541, extension 268.
- Looking for program material for your club meeting? A slide show on the World Administrative Radio Conference coming next February is now available from ARRL HQ, with 55 35-mm slides and cassette tape audio narration. The show also is available on VHS videotape, but the slide/tape version is recommended. The program focuses on issues at stake at the conference, on the draft U.S. proposals, and on how clubs and individuals can help.

- FCC has closed the floodgate after receiving more than 50,000 applications for land mobile radio service licenses in the 220-222 MHz range (which ceases to be part of the Amateur band on Aug. 27). On May 24, FCC announced that no new applications would be accepted, saying "this influx of applications has created, at a minimum, an additional workload of one-half year for the entire Licensing Division."
- A correction should be made to your 1991-1992 ARRL Repeater Directory. Some of the 420-450 MHz listings for Texas show frequencies rounded up or down; for example, 443.975 might be shown as 443.98. UHF repeaters in Texas use 25-kHz splits. For more information contact the Texas VHF-FM Society, 65 S. Walnut Creek, Mansfield TX 76063.
- U.S. Amateurs are reminded that in order to operate from Canada all that is required is to carry one's original FCC license, sign portable, and observe U.S. band and mode restrictions. No advance written permission is necessary.
- While it can be discouraging to think that only about 30 percent of licensed U.S. Amateurs are ARRL members, consider the relevant statistics for Japan:

At the end of 1990, 1,074,367 Japanese Amateur Radio stations were licensed. As of March 7, 1991, the Japan Amateur Radio League had 166,723 members -- about 16%.

Last winter, during "Membership Reinforcement Month," the JARL recruited 1,104 new members, according to The JARL News.

• Four more congresspeople have become co-sponsors of H.R. 73, introduced in the U.S. House of Representatives on Jan. 2, 1991. They are Jack Reed (D-RI); Jill Long (D-IN); Wayne Gilchrest (R-MD); and Claude Harris (D-AL).

This brings the number of co-sponsors of the bill to 104, less than one-fourth the total House membership. Many more are needed if the bill is to be ensured of coming up for a vote this session.

ggg

DX DX DX

John Kanode, N4MM

NORTH KOREA, Possible New DXCC Country. The DXAC voted 16 in favor, \emptyset against to add North Korea to the ARRL DXCC Country List. The DXAC requested that the HQ Awards Committee consider this action. This should take place within the next two or three weeks. The DXAC also suggested the start date should be when the first valid operation takes place. At present, there is no known valid operations to have taken place from North Korea.

The DXAC at last received an application petition for separate country status for Jarvis Island. The application was submitted by the members of the recent AH3C / KH5J DXpedition. It will take the DXAC several months to study the petition, which is over 100 pages long.

MYANMAR (BURMA)

Romeo, YAØRR has valid documentation to allow him to operate from Myanmar (Burma) XZ. It has been reviewed by the DXCC staff at ARRL HQ and found to be in order. The time for this operation is not firm yet. The cost to launch such an operation is great and funds must be collected. More on this major DXpedition as it becomes available. XZ is the second most needed country for DXCC. Albania is number 1.

DX CONTESTS FOR AUGUST

August 3/4-----YO DX Contest August 10/11----Worked All Europe CW August 17/18----SEANET SSB Contest August 17/18----SARTG RTTY Contest

UPCOMING DXPEDITIONS

SOUTH COOK ISLANDS, ZK1 Carlo, I4ALU plans to be on Aitutuki Island (OC-083) from August 18 to the 25. QSL to his home call.

The group that had planned to go to South Sandwich / South Georgia Islands is going to try again this year. They are planning to start this DXpedition in December of 1991. CW and RTTY QSLs go to KA6V and SSB QSLs to AA6BB. More details on this operation as they become available.

NOTES:

The ITU has allocated the E2A-E2Z callsign block to Thailand. The UR prefix will be used from the Ukraine, as Estonia continues to use ES.

SIX meters is coming back to life. There have been several openings into HH, KP4, C6, YV5, VP9, CU3 and VP2. in the past weeks. There have been good Es openings to the West Coast.

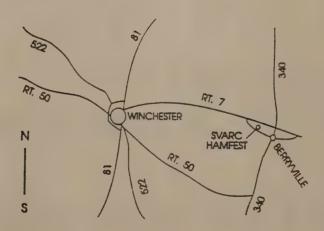
FLASH!!

The Great Dismal Swamp DX Association held a special meeting at the Norfolk Airport Hilton on July 1. Romeo Stepanenko, UB5JBB, YA0RR, 1S0XV; his wife and Yuri were guests of the GDSDXA. A slide show of his recent trip to Afghanistan was presented along with a video of the recent 1S0XV DXpedition. About 60 attended, most from the Tidewater area. At the end of the meeting Romeo gave out QSL cards for his YA0RR operation. Romeo stated that he plans to mount a DXpedition to Myanmar in August of this year.

41th. ANNUAL SHENANDOAH VALLEY AMATEUR RADIO CLUB

WINCHESTER HAMFEST COMPUTER SHOW
SUNDAY, AUGUST 4th., CLARKE COUNTY RURITAN
FAIRGROUNDS, BERRYVILLE, VIRGINIA
BREAKFAST, SNACK BAR, RURITAN'S FAMOUS CHICKEN & BEEF BARBEQUE!





Gate Opens at 6:00 A.M. - Admission \$5.00 - Tail-Gaters / Tables \$7.00

FOUNDATION FOR AMATEUR RADIO

Volunteer Examiner Cooperative

Nancy Draheim - NK4U
3513 Old Post Road, Fairfax, VA 22030
(703) 691-0078

SCHEDULE OF EXAMINATIONS 1991

IMPORTANT NOTE: If you now have a Technician class license which was acquired prior to March 21, 1987, have a copy of it available when you decide to upgrade.

EXAMS

Middletown VE Team (Middletown, VA) (ARRL VEC) Limited walk-ins Aug 3 Contact: Walt Quitter, NC4B (703) 869-5241 Aug 10 Massanutten ARA (Harrisonburg, VA) (ARRL VEC) Contact: Marshal Cooper, N4ZKH (703) 856-8012 (6-9 p.m.) Anne Arundel Radio Club (LARC VEC) Pre-registration requested Contact: Nancy Alley, NT3Z (301) 761-7115 or Bob Israel, WC3I 262-5083 Laurel ARC (Laurel, MD) (Laurel VEC) Pregistration desirable Aug 17 Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m. Hampton Roads Radio Assn. (Hampton, VA) (W5YI VEC) Contact: Bill Runyon, N4BDH (804) 487-8611 Aug 19 Maryland Mobileers ARC (Annapolis, MD) Preregistration Requested Contact: John Kohl, KO4A (301) 757-8148 Between 6-9 p.m. Montgomery College (Germantown, MD) (ARRL VEC) Sep 7 Contact: John Muller, W3QF (301) 564-0178 PROS (Salisbury, MD) (Laurel VEC) Walk-in Sep 14 Contact: Dave Bridge, KB3MT (301) 436-8360 Richmond (Richmond, VA) Walk-in Contact: Ron Bolton, WU4G (804) 798-5191 Anne Arundel Radio Club (LARC VEC) Pre-registration requested Contact: Nancy Alley, NT3Z (301) 761-7115 or Bob Israel, WC3I 262-5083 Laurel ARC (Laurel, MD) (Laurel VEC) Pregistration desirable Sep 21 Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m. ARRL Roanoke Division Convention (Virginia Beach, VA) (ARRL VEC) Sep 22 Contact: Ed Brummer, W4RTZ (804) 898-8031 Stafford Area Repeater Assn. (Stafford, VA) (W5YI VEC) Walk-in Sep 27 Contact: David Boyd, K9MX (703) 659-6241 Maryland Mobileers ARC (Annapolis, MD) Pre-registration requested Sep 30 Contact: John Kohl, KO4A (301) 757-8148 Between 6-9 p.m. Frederick ARC (Frederick, MD) (ARRL VEC) Walk-in Oct 10 Contact: Rick Ogden (301) 845-2670

Volunteer Examiner Cooperative - Continued

- Oct 12 Williamsburg Area ARC (Williamsburg, VA) (ARRL VEC)
 Contact: Andrew Swanson, WJ4D (804) 253-2811

 Anne Arundel Radio Club (LARC VEC) Pre-registration requested
 Contact: Nancy Alley, NT3Z (301) 761-7115 or Bob Israel, WC3I 262-5083

 Massanutten ARA (Harrisonburg, VA) (ARRL VEC)
 Contact: Marshal Cooper, N4ZKH (703) 856-8012 (6-9 p.m.)
- Oct 19 Laurel ARC (Laurel, MD) (Laurel VEC) Pregistration desirable Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m.
- Oct 21 Maryland Mobileers ARC (Annapolis, MD) Pre-registration requested Contact: John Kohl, KO4A (301) 757-8148 Between 6-9 p.m.
- Oct 27 Antietam Radio Assn ARC (Hagerstown, MD) (ARRL VEC) Pre-registration Contact: Norma Jean Bollinger, NC3X (717) 597-8231 (Before 9:00 p.m.)
- Nov 2 Portsmouth ARC (Portsmouth, VA) (ARRL VEC)
 Contact: Art Thiemens, AA4AT (804) 484-2857

 Middletown VE Team (Middletown, VA) (ARRL VEC) Limited walk-ins
 Contact: Walt Quitter, NC4B (703) 869-5241
- Nov 9 Anne Arundel Radio Club (LARC VEC) Pre-registration requested Contact: Nancy Alley, NT3Z (301) 761-7115 or Bob Israel, WC3I 262-5083
- Nov 16 Laurel ARC (Laurel, MD) (Laurel VEC) Pregistration desirable Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m.

 Hampton Roads Radio Assn. (Hampton, VA) (W5YI VEC) Contact: Bill Runyon, N4BDH (804) 487-8611

 Richmond (Richmond, VA) Walk-in Contact: Ron Bolton, WU4G (804) 798-5191
- Nov 18 Maryland Mobileers ARC (LARC VEC) Preregistration requested. Contact: John Kohl, KO4A (301) 757-8148 Between 6-9 p.m.

NOTE: All examinations require that you submit:

Copy of your current Amateur Radio license (bring original)

Completed FCC Form 610.

Check for appropriate examination fee.

Fees of individual VEC may vary.

ARRL Exam fee is \$5.25

W5YI Exam fee is \$5.25

Laurel VEC all exams are free.

Mountain VEC all exams are free

If you presently have a Technician class license which was acquired prior to March 21 1987, keep a copy of this license available when you decide to upgrade to General class. It will be your responsibility to prove you are grandfathered for Element 3B (General Theory).

While most examinations are offered on a walk-in basis, pre-registration is desirable in all cases.

This schedule of examinations appears each month in Auto-Call Magazine Sponsored by the Foundation for Amateur Radio

Training Classes

Robert Armstrong, WA4SQL 44 South French Street, Alexandria, VA 22304 Phone (703) 751-2294

Novice and No-code Tech Classes, Herndon, VA. September 7 to November 23. Sponsored by Herndon Repeater Group. Saturdays 9:00 a.m. to 12:00 Noon at the Herndon Police Station. Class limited to 25 students. The course is FREE but students should have a copy of either "Tune in the World" or "Now You're Talking," available through the Club at cost. For information and registration contact Michael Rosati - N4FXP at (703) 481-8380 or Mike Webber - WB8RDN at (703) 450-2304 between 7:00 and 9:00 p.m.

Novice, Tech, No-Code Tech Classes, Hagerstown, MD. Began July 8. Sponsored by Antietam Radio Association at Washington County Civil Defense Center in the basement of the Court House. For additional information, contact Don Marsden - KD3TY

License Classes, Laurel, MD. Beginning in the fall. Intend to offer an entry level program to suit those interested in obtaining a Novice or a Codeless Technician Class of license. For more information, call Pud Reaver - W3DQI (301) 498-6293 or John Albertine - W3GFS (301) 317-8221

Novice Training Classes, Baltimore, MD. Sponsored by BRATS. Classes are being held on an on-going basis every Friday evening at American Red Cross; 4700 Mt. Hope Drive, Baltimore (near Reisterstown Road Plaza Metro Station). Class is free; Materials (which you can keep) consist of a book and tape and cost \$19.90. For registration or information, contact Jeff Salamon, N3FHT. Phone (301) 484-1362

Novice and Upgrade Classes, Lexington Park, MD. Sponsored by St. Mary's County Amateur Radio Assn. For further information call (301) 862-2214.

Novice Training Classes, N.W. Washington, DC. Sponsored by MADRAS. For more information contact Larry Zeicheck - N3GKZ (301) 984-6112.

Training Classes, Sponsored by Montgomery Amateur Radio Club. Fall class is scheduled to begin about October 1. There is no charge. Classes are open to all with an interest in Amateur Radio, especially former and current "short wave listeners." For further information, contact Ken Nichols -KD3VK (301) 977-5405 or Dick Hayman - K3DML (301) 251-8721.

Training Classes, Laurel, Maryland. Sponsored by the Laurel Amateur Radio Club. Classes to be scheduled in the fall are expected to offer an entry level program to suit those iterested in obtaining a Novice or Codeless Technician class of license. Watch for information in Auto-Call or contact Pud Reaver - W3DQI (301) 498-6293 or John Albertine - W3GFS (301) 317-8221.

SLOW CODE PRACTICE NET, 28.250 MHz 7 to 8 p.m. Wednesdays. Sponsored by Woodbridge Wireless, Inc.

The ANTIETAM RADIO **ASSOCIATION** W3CWC



PRESENTS THE 1991 EDITION OF THE Maryland - D. C. **QSO** Party

1600Z Aug. 17-0400Z Aug. 18 & 1600Z-2359Z Aug. 18, 1991

PHONE AND CW: STATIONS MAY BE WORKED ONCE PER BAND USING EACH MODE. CW QSOs IN THE CW BAND ONLY, NON-MARYLAND STATIONS MUST WORK MARYLAND/DC STATIONS. MARYLAND/DC STATIONS MAY WORK ANYONE.

Portables and Mobiles that change Maryland counties during the contest count as a separate station in each new county of operation. No repeater QSOs count. Other HF and VHF contacts do.

EXCHANGE: Signal Report, QTH AND MAJOR CATEGORY OF ENTRY, QTH is county for Maryland Stations, U.S. State or if DX, Country of Operation. Major Categories of operation are CLUB, QRP, MOBILE, NOVICE, TECHNICIAN, and STANDARD Category Entries. Stations should send only The most Major Category of Entry.

SUGGESTED FREQUENCIES: SSB 1.86, 3.92, 7.265, 14.28, 21.37, 28.37, 50.15, & 146.55 Mhz CW 3.643, 7.06, 14.04, 21.115, 28.06 MHZ CW suggested on the odd half hours, Examples 1730, 1930, 2130 UTC

SCORING: For Non-Maryland/DC stations-Each Maryland County, Baltimore City and D.C. are Multipliers (25) For Maryland/DC Stations, Multipliers are Maryland Counties, Baltimore City, D.C., Each of the 49 other states and one Multiplier for working a DX station (75 possible multipliers!) Multipliers may be claimed once only- they do not repeat on different bands.

QSO POINTS: 10 Points for Club station QSOs (Clubs may be in or out of Maryland! for MD entry)

5 Points for Mobile station QSOs (Mobiles anywhere for MD stations) 2 Points for direct contact by CW (including RTTY/digital modes)

1 point for any other valid contact

Special note: Highest Point Value per QSO Applies (example a CW/Mobile contact is 5 points)

FINAL SCORE: Add up all QSO Points and multiply by the sum of the multipliers. Mobiles may add 100 bonus points to their final score for each county outside their home from which 20 QSOs were made.

AWARDS: High score verified from each U.S. State, Canada, or DX

Top 3 Maryland logs; High scoring Maryland Club Station; High scoring Maryland Mobile with QSOs from 2 or more Maryland Counties, High scoring Maryland YL, High Novice & Technician Entries * Certificate to each Station with at Least 100 QSO POINTS in entry

SWL award for the best log from a SWL (must not be a ham)

High scoring QRP ENTRY (no state restriction)

Decision of the judges are final. The committee reserves the right to add other awards if deemed appropriate by the Association.

Logs should be mailed to the contest chairman by September 10, 1991. Indicate on your log your complete exchange information and your categories of entry. (Mobile, Club, Novice, YL, QRP, Etc.) Mail logs to:

ANTIETAM RADIO ASSOCIATION P.O. BOX 52 HAGERSTOWN, MD 21741 - 0052

DIRECT ANY QUESTIONS TO WAJEOP, CONTEST CHAIRMAN, INCLUDE S.A.S.E. FOR CONTEST RESULTS!

OPERATION "BAY SWIM" de WA3TNQ

Operation "BAY SWIM" is an annual event sponsored by the American Diabetes Foundation in which 800-900 long distance swimmers are challenged by a 4.4 mile course across the Chesapeake Bay near Annapolis, Maryland. Normally the event has gone smoothly in years past with only a relatively small number of "pick-ups" or rescues required. This year proved to be the exception. Of the 884 swimmers who started, only 164 made it all the way across the Bay "unassisted" to the finish line on Kent Island.

This "BAY SWIM" is a large operation, as it requires the coordination of the Coast Guard and its Auxiliary, the Natural Resources Police, private boat owners, a few aircraft pilots, and the services of many Amateur Radio operators (Hams) with handheld or other types of portable or mobile radios.

The swimmers must cross the Bay through an ebbing tide and stay on a course about 100 yards wide between the East and West bound bridges of Maryland Route 50. The timing for this event is important. The water must be warm enough to avoid hypothermia but still be at a low enough temperature before the stinging sea nettles have worked up into that part of the Bay. The event must also start at an early hour in the morning when the Bay water is still calm and before the wind comes up.

On Sunday June 9th, there were 56 volunteer "pick-up/rescue" boats. Some of the boats are owned by Hams: others were assigned an Amateur Radio operator with a VHF radio. The boats were stationed about 200 feet South of and along the length of the East-bound bridge (the south span) for pick-up and rescue Behind them were the "Dive Boats" each with three rescue trained SCUBA divers and a ham radio operator. Within this same flank were the roving "Sweep Boats" and "Medic" boats also equipped with ham radios. Behind them were flanks of the Coast Guard and CG Auxiliary boats who were operating on both CG Marine frequencies and on ham radio. One of the larger boats served as the Command Control Center and Radio Net

Control for all the Amateur Radio frequencies. (To conduct a critical operation of this size entirely on the VHF Marine radio frequencies on a Sunday in June is next to impossible).

The planes used an aircraft frequency that was coordinated from the airport via Amateur Radio to the Command Boat. Another Amateur VHF link was provided to the Maryland Natural Resources Police boats.

The operation plan called for the Coast Guard to close off the Bay bridge area to all north and south bound commercial shipping and any fishing or pleasure boat traffic for about a four hour period. This was enforced by the C.G. and M.N.R. Police who were stationed north and south of the bridges with the aircraft serving as spotters. The planes towed large banners warning ships and other craft that passage under the bridge spans was closed to all marine traffic.

The rescue boats had instructions to pick up any swimmer who drifted outside the course (below the East-bound bridge) and could not get back on course within 5 minutes as well as any swimmer in trouble. As a boat reached it's capacity the captain would have his radio operator call the Net Control Station on the simplex channel for a "Sweep Boat" to off-load swimmers they had picked up. In case of trouble they would radio for one of the "Dive Boats" or a "Medic" who had an EMT aboard to render any medical assistance. A small group of kayaks would travel amongst the swimmers to try and keep them on course and to be close-in to watch for anyone in trouble and provide something to hold on to until help arrived.

Since full accountability for all swimmers was and is the most important part of this operation all swimmers were marked with a waterproof number on their right hand and a special tag attached to a required colored cap on their head. Once in the water, the only destination was the finish line at a marina on the Eastern shore of the Bay. Whether the swimmer swims across or arrives by boat, the officials collect and match the tag with the number on the wrist and the list prepared at the starting line. (Continued)

Operation "Bay Swim" - Continued

The race was delayed until 0805 when all boats were in position. The first 45 minutes ran smoothly with little for us to do and most of the radio traffic was concerned with keeping unauthorized marine traffic away from the area. (All participating boats in the operation flew special red flags with white numerals to distinguish them from other boats).

While the tide normally causes a current of 1-2 knots, the Bay Bridges are located at a narrow part of the Bay between the western shore and Kent Island causing a "choke point" that often makes the current run a little faster. Every pylon and island supporting the bridges provides another obstruction which causes an increase in the current. On June 9th it was unusually swift and most of the boats, especially those of us near the center span, had to keep adjusting the throttle idle to remain on our assigned station.

Soon hundreds of bobbing heads in colored caps could be seen coming around the bend in the course where the bridges gradually change to an easterly direction. Many first-time swimmers were unaware of the speed of the current and were soon swept southward out of the course. Some, realizing their error, tried to swim harder in a Northeasterly direction to get back on course but for many it was too late and they started to slow down from the extra effort.

By 0930 almost all the rescue boats were picking up swimmers who were being swept off course over a mile wide area just before and all the way across the deep water shipping channel. What was once an orderly procession quickly became a wide flank or fan of people struggling against the current.

By 1000, the "Pick-up boats" were radioing for "Sweep Boats" which were already full and shuttling back and forth to shore. Now many of the first-line rescue boats were too full for the "Sweeps" to handle and the radio frequencies were very busy. Many of the rescue boats were forced to leave station and rush, as best they could, their "cargo" several miles to Kent Island. As soon as the swimmers were off-loaded we quickly returned to the bridge area for another load. By this time practically every boat in the area including the Coast Guard patrol boats and the Auxiliary members were picking up swimmers.

At 1015 the Coast Guard and race officials cancelled the race and all boats received a radio message to pick up all of the remaining swimmers, wherever they were.

Of the 884 swimmers who started, only 164 made it all the way across the Bay "unassisted" to the finish line on Kent Island. The winning time was just under two hours. All swimmers were accounted for, including one who slipped through our screen. A boater, not in the operation, spotted him after hearing a Coast Guard radio warning and picked him up more than two miles below the bridges.

In retrospect it is clear that a rescue of 720 swimmers was a massive operation that took place in a very short period of time. In spite of some very anxious moments by many crews with heavily laden boats, everything went well without loss of life or injury. Volunteer boat owners, Amateur Radio operators, the Coast Guard, its Auxiliary and the Natural Resources Police worked together under adverse circumstances to prevent this event from becoming a terrible disaster.

While I do not have a list of all the many Coast Guard Auxiliary and volunteer boat owners or the many Amateur Radio operators who took part in this event, special credit should be given to the Anne Arundel Radio Club and The Maryland Mobileers. They provided many of the operators and equipment and helped to set up the ham network. The net also included many individual hams who came from other clubs that surround the Chesapeake Bay area and from as far away as Baltimore and metropolitan Washington, DC.

Next year, the plan is to have more boats for pickup duty and larger boats for the "Sweep" service. This in turn means more radio operators will be needed to provide communications. Most of all, they are planning to have better screening of and briefing for the swimmers. This is not an event for people inexperienced in long distance swimming.

A.L. Caron - WA3TNQ

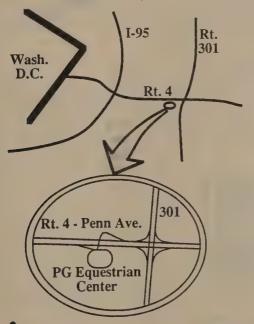
1st Annual

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the EEB Hamgram

HAM & SWL NEWSLETTER

The HAMGRAM is a free service from EEB to all subscribers (Want to subscribe? Just fill in the subscription blank) and is intended to keep you, our customers and readers, informed about new products, special solute, close-out items, club & VEC information, and other news of interest.

You'll see it here before you see it in the big four monthly magazines. Why? Because we don't have ninety day lead times before publication.

We want your inputs:
How can we serve you better?
Is there a special product
you would like to see at
EEB? Please use the comment
blank in this issue to reply.



GSA CONTRACT

EEB is presently negotiating a contract with GSA. This particular contract involves many popular amateur radio products.

Amateur radio equipment gives our government more bang for the buck than most specially designed equipment. It is a well known fact that many pieces of amateur equipment function as well, and some better, than high priced specially designed equipment. The cost savings advantages for purchasing amateur equipment are real and very important in these days of tight budgets.

All items on this contract will be negotiated once per year. Therefore the procurement cycle is reduced in time span, reducing delays, and making fast availability of products.

If you work for the U.S. Government please keep EEB's new GSA contract in mind.





Wanted: Trade-ins

Trader Scott says he needs late model used ham gear and is ready for some real wheeling and dealing.

Now is the time to upgrade to that new state of the art rig.

Also, Scott's consignment sales rack is quite low on stock, so dust off that equipment you no longer need and bring it over and let Scott turn it into cash for you



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til 9 on Thur
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Closed Sunday

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Electronic Equipment Bank 323 Mill Street, NE Vienna, VA 22180

SRAM-032

Edited by Dexter Anderson, W4KM

NEW SOVIET AMATEUR MAGAZINE -- "RL" -- PUBLISHED IN MINSK

This month there's bad news and good news. The bad news is that delays are still affecting receipt of the regular Soviet amateur radio periodicals on which this column is based, the monthly magazine RADIO and the weekly newspaper SOVETSKIY PATRIOT. The good news is that a new, non-official, monthly magazine has made its appearance in Minsk, capital of the Byelorussian SSR in the extreme West of the USSR. It's entitled RADIOLYUBITEL' -- literally RADIOAMATEUR. "RL" seems a handy way to refer to it.

Dr. Valentin Kuz'mich Benzar', UC2AAO, is listed as Editor-in-Chief. Of nine co-workers, two have callsigns: Stepan Borodovskiy, UC2AAO, and Valeriy Yanovskiy, UC2-188-292. RL#01/1991, as we shall refer to this issue, was signed to press 26 December 1990 and was printed in 50000 copies at the Publishing House of the Central Committee of the Communist Party of Byelorussia.

Benzar' was involved about two years earlier in another attempt to publish an "independent" amateur magazine under the auspices of INFOTEKH, the same cooperative that is sponsoring "RL"; on 8 February 1989, Benzar' sent Bev Cavender, W4ZD/TI2BEV (he in turn kindly passed it to me), a copy of what was apparently issue No. 1 of the earlier magazine, EXPRESS-ADVERTISING-INFORMATION (EKSPRESS-REKLAM-INFORMATSIYA).

If space permits, we'll include material from RL#01/1991 in SRAM-033.

ARTICLES FROM SOVETSKIY PATRIOT

[Comments in square brackets are by translator]

[Effective January 1991, a sequential number starting with 01 has appeared on each page of "SP"; also, the only precise date given in each issue is the "signed-to-press" date appearing at the bottom of the last page. We'll use the sequential number and the signed-to-press date as convenient references.]

SP#09/1991, signed to press 26 February 1991, framed inset:

IN THE FEDERATION OF RADIO SPORT OF THE USSR

The Bureau of the Presidium of the Federation of Radio Sport of the USSR has examined a statement by Moscow shortwaver L. Labutin (ex-UA3CR) concerning the restoration to him of permission to operate an amateur radio station. The Bureau noted that the actions of L. Labutin during the period of the liquidation of the consequences of the earthquake in Armenia (the intentional disinformation he provided on the location of equipment that arrived from the USA for conducting this work) did not facilitate the consolidation of the efforts of all radio amateurs of the country taking part in rescue work. These actions objectively reduced the effectiveness of their work.

Taking into account the fact that two years have passed since the closing of L. Labutin's amateur radio station and that he apologized to the FRS of the USSR for his actions during this period, the Bureau of the Presidium of the FRS of the USSR has decided to apply to the State Telecommunication Inspectorate of the USSR to restore to L. Labutin permission to operate an amateur radio station.

(Continued)

SRAM-032 - Continued

SP#09/1991 and SP#10/1991, signed to press 26 February and 5 March 1991, NLD-1479 and NLD-1980:

As is known, the International Yu. A. Gagarin Cup Competitions take place every three years. As an exception, they will also take place this year, on 14 April 1991, in connection with the 30th anniversary of the flight of Yu. A. Gagarin.

The International Competitions for the "30 Years Since the First Manned Flight into Space by Citizen of the USSR Yuriy Gagarin" Memorial Cup of the Central Radio Club of the USSR will take place on c.w. from 0000 to 1600 UT 14 April 1991 on 3.5 - 28 MHz (except WARC bands). Categories: Single-op/multi-band, single-op/single-band, and multi-op/multi-band/single-transmitter. Call CQ GC. The exchange consists of RST and ITU zone number. Contacts within a continent count 1 point and with other continents 3 points. Each ITU zone is worth one multiplier for each band. Winners in each category will receive cups provided by the Central Radio Club of the USSR. High-scorers for each continent, country, or band will receive memorial awards provided by the Federation of Cosmonautics of the USSR and the Central Radio Club of the USSR.

Reports are to be sent by 31 May 1991 to the Central Radio Club of the USSR, Pokhodnyy Proyezd 23, 123459 MOSCOW.

SP#11, signed to press 12 March 1991, independent article:

"FROM MORSE TO SATELLITE," by N. Maksimova

The date 26 October 1978 is associated with the placing into orbit of the first Soviet amateur radio satellite. Aleksandr Pavlovich Papkov, UA3XBU, built the telemetry. Four years of effort so that this little hunk of metal soldered together out of many elements could operate in space!

Other satellites followed, including three "Iskra" satellites constructed by students. Papkov built not only the telemetry for them, but also the automatic answerers -- the robots -- and the on-board memory devices.

In 1981, the radio amateurs of the world began to use four repeater satellites placed in space together with a single rocket launcher. They operated twice their planned lifetime.

At present there are four Papkov satellites in space, two of which were launched at the beginning of February.

In 1982, when Papkov came to Kaluga, an independent technical creativity club was established. Seven people with ideas and the skills to transform them into reality formed the volunteer space-equipment laboratory attached to the State Museum of the History of Cosmonautics Named After K. E. Tsiolkovskiy. So the satellite was the result of collective work. But special thanks are due to Papkov's two principal assistants, Viktor Samkov, RA3XAM, the designer of the radio equipment part of the satellite repeaters, and Yevgeniy Levin, the power-supply specialist.

* * . *

And now, an outside view on the question of whether such "amateur" activity is necessary.

Flyer-cosmonaut of the USSR V. Lebedev, doctor of technical sciences, believes such activity is absolutely necessary to encourage the creation of scientific-technical amateur associations, which help people realize their full potential and gain confidence in construction projects. According to Lebedev, amateur associations of this type have advantages over professional ones. This was the case with Sergey Korolev, the first Chief Constructor of space vehicles; people like him built amateur airplanes and gliders collectively, and then went on in later life to become the heads of large professional construction bureaus.

AUTO-CALL 24 August 1991

SRAM-032 - Continued

SP#11, signed to press 12 March 1991, NLD-1481:

CLUB NEWS

The Perm' Federation of Radio Sport will sponsor a conference 13 - 14 April 1991 on digital forms of amateur radiocommunication. Apply to P. O. Box 6638, 614066 PERM'. From RV9FQ. New or updated addresses of local QSL bureaus:

Magadanskaya Oblast' [Oblast' No. 138, RSFSR "number-letter" identifier ØII: Amateur Station

UZOIWA, P. O. Box 1691, 685024 MAGADAN.

• Kirovogradskaya Oblast' [Oblast' No. 066, Ukrainian SSR "letter-letter" identifier B-V]: Amateur Station UB4VWA, P. O. Box 100, 316001 KIROVOGRAD-1.

COMPETITIONS

From 1600 UT 16 March to 1600 UT 17 March 1991 the CW/SSB UNION OF [CLUBS] CONTEST will take place, organized by the "Kivach" DX Club. ... Call CQ UC. ... Reports go to Amateur Station UA1NDY, P. O. Box 4, 185014 PETROZAVODSK-14. The "Union of Clubs" consists of the Kivach DX Club (abbreviated KDX in competitions), AREL (AREL), U-QRP-C (QRP), M-DX-C (MDX), E-DX-C (EDX), UARTG (UAR), the group "Union" [gruppa "Soyuz"] (GU), CWAS (CWAS, Brazil), and HCC (HCC, Spain). From UA1NDR.

FROM UW3AX

Lately, mail delivery times in this country have lengthened substantially. For this reason, organizers of events may wish to telephone UW3AX on 207-68-89 to ensure that material sent to "NLD" has arrived, so that otherwise it may be repeated by telephone.

SP#13, signed to press 26 March 1991, NLD-1483:

DISTANT STATIONS

Operation from Vietnam by two expeditions -- RL8PYL and UA3DK -- is possible at the end of March and during April 1991.

DIPLOMAS

To receive the "Khaydzhi" diploma, radio amateurs in WAZ Zone 18 must contact, since 1 January 1991, ten different stations in Khakassiya; amateurs in other Zones must work five. Apply to Diploma Commission, P. O. Box 50, 662600 ABAKAN. From UAØWZ.

SP#14, signed to press 2 April 1991, NLD-1484;

The YAØRR (3W3RR and YL3CW) expedition to Afghanistan made 31128 CW, SSB, and RTTY contacts. Soviet radio amateurs should QSL to 3W3RR (PSE SASE) at P. O. Box 308, 103009 MOSCOW. Use the same address to QSL 4U1ITU (26 - 27 March 1991, operator Roman), HBØ/3W3RR, and 5H1HK.

A number of federations of radio sport and clubs are sponsoring events dedicated to the 30th

anniversary of Yu. A. Gagarin's flight into space [which took place 12 April 1961].

• From 8 through 14 April the radio amateurs of Dzhezkazganskaya Oblast' No. 178, Kazakhskaya SSR "letter-letter" identifier L-R]. UL8RWR is to operate from the area where Soviet cosmonauts land.

• From 15 through 19 April, activity days will be sponsored by the radio amateurs of Kaluzhskaya

Oblast' [Oblast' No. 127, RSFSR "number-letter" identifier 3X].

On 12 April, an activity day will be sponsored by the radio amateurs of Smolenskaya Oblast' [Oblast' No. 155, RSFSR "number-letter" identifier 3L]. Special station RK1G will operate.

On 14 April, an activity day of the U-DX-C will take place. Special station 4LØDXC will operate from 5 through 15 April 1991.

nnn

Recognitions

Congratulations to Terry McCarty - WA5NTI and the Woodbridge Wireless on apparently the first successful Local Area Network via packet radio for central monitoring and logging of Field Day contacts. At the close of Field Day, reports (including graphs, etc.) were printed out before the stations could be dismantled! See more details on page 44.

Congratulations to Lt. Colonel David ("Spike") Boyd - K9MX on his new assignment as Deputy Director for Science and Engineering, Operations Test and Evaluation command. Col. Boyd has been with the Joint Staff at the Pentagon.

Congratulations to 8 year old Frances Cowhig on passing her Novice license. She is now KD4BMJ. She is continuing to study for her General Class ticket. Frances is the daughter of David Cowhig - WA1LBP.

Thanks to ARRL for a generous donation to the Amateur Radio station NN3SI at the Smithsonian Institution in connection with the upgrading and move of the station to new quarters in the Information Age Exhibit at the Museum of American History.

Silent Keys

Willis Holmes, NF3L, a member of the Goddard Amateur Radio Club, died June 10. No other details were available at press time.

(Reported by W3ABC)

Gordon L. Huffcutt, W4ABA of Fairfax, Virginia died in his sleep July 3 from a heart attack. He was retired from the Department of State where he worked in Frequency Management. He was also a Lt. Colnel in the Signal Corps. No other details were available at press time.

(Reported by W4ZC)

Widow's Assistance Program

The Foundation's Widows Assistance Program has been in operation for many years and has accomplished a great deal for the families of our Silent Keys. The program offers to help widows (and other family members) evaluate and dispose of radio equipment in Amateurs' estates. Listings of Estate Sales are carried in the Shack Sales of Auto-Call free of charge and major items are offered for sale at local Hamfests. No fee or commission is charged the families.

Interested parties should contact a local Foundation member club or call the Widow's Assistance Program directly. Call chairman Bob Murnane - N5QLB at

301-820-9432

The address is 712 Lomax Street; Easton, Maryland, 21601.

AUTO-CALL 26 August 1991

Amateur Radio Week In the State of Maryland

Governor William Donald Schaefer proclaimed the week of June 17-23 as Amateur Radio Week in the State of Maryland. See the photo below showing the presentation of the impressive proclamation.

The Proclamation read:

WHEREAS, Over the years, Maryland's proud and heralded licensed amateur radio operators have remained devoted to practicing their communications skills while also volunteering their services in the interests of our people; and

WHEREAS, Amateur Radio operators are on continual alert to furnish vital emergency communication facilities in times of natural disaster, to help provide for medical assistance, and to lend their expertise in periods of time requiring appropriate civil defense measures; and

WHEREAS, Maryland amateur radio operators are prepared to give generously of their time and resources in helping others to communicate with their families from inaccessible points throughout the world, and from ships at sea; and

WHEREAS, Maryland is indeed pleased to join with the Maryland Apple Dumpling Radio Amateur Society and the Rock Creek Amateur Radio Association, and with clubs in communities throughout this State, in congratulating these special operators on their impressive commitment to their fellowman as they nobly seek to promote international understanding and goodwill.

NOW, THEREFORE, I, WILLIAM DONALD SCHAEFER, GOVERNOR OF THE STATE OF MARYLAND, do hereby proclaim June 17 - 23, 1991 as AMATEUR RADIO WEEK in Maryland, and do commend this observance to all of our citizens.



Shown in the photo are (l-r)

Larry Ziecheck - N3GKZ, MADRAS President; Louis Goldstein - Maryland State Comptroller,

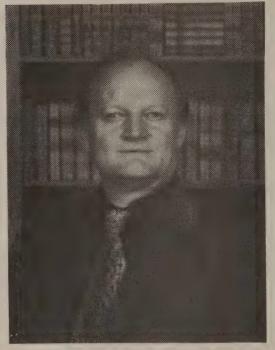
Mike Khan - KA3GSV, RCARA Secretary; and Walt Ramsey - AK3B, RCARA P.R. Officer

Foundation For Amateur Radio Ham of the Month

Robert D. Milligan, KI4MB

Robert D. Milligan - KI4MB got his Novice license in 1980 and upgraded to Advanced in 1984. He has been involved in electronics since his Army days and currently is an Electronic Technician at Washington National Airport, where he has worked since 1966.

Bob is the current president of the Metropolitan Communications Network Six-Meter Club in the National Capital Area. He has also held the office of president of the Arlington Amateur Radio Club as well as vice president of the Foundation for Amateur Radio.



He particularly enjoys working with younger groups.

Anyone who has seen his radio shack knows that "hamming" is a true hobby for Bob. All his equipment runs off of batteries. No problem for him if the lights go out. Even his six-meter AM gear has been converted to run on DC. Currently Bob and Randy Kelly WB4MJF have three repeaters on the air. Two-meter (145.15R). 220 MHz (223.00R) and 440 MHz (444.150R) repeaters are located in Arlington and cover the local area.

He enjoys working on older tube equipment to see what makes them "tick" and can be seen at most local hamfests as his work schedule permits. He has helped several people with radio teletype get on the air and maintain their equipment. Since his heart attack in 1986 he has slowed down a little, but can usually work into his schedule the time to help a fellow ham by answering questions, loaning equipment or giving advice on a piece of equipment or helping them study so they can become Hams or upgrade to a higher license. He has encouraged several of the other technicians at the airport to obtain their licenses and has given demonstrations at Boy Scout camp-outs, his daughter's school classes, and to anyone else who has shown an interest.

As time permits, 6-meter gear will be tied in on the 220 MHz receive only.

Bob has encouraged his family to join in his hobby. His son, Robert, is KA4WPS; Leonard is KA9QMV; his wife, Mary-KA1KWP, can be heard frequently on the repeater. Daughter Frances, who is 9 years old, has just recently passed the Novice exam and has received her call, KD4AXW. Son Michael, who is 6 years old, is anxious to help his dad and enjoys playing "Hamfest."

We think Bob Milligan deserves recognition as the Foundation's Ham of the Month.

Submitted by Mary A. Milligan - KA1KWP

Nominations for Ham of the Month are Solicited.

There are many people in our Amateur community who are very deserving of recognition.

Please write them up. For further information contact HAM OF THE MONTH committee Chairman Tony Young, WA3YLO at (301) 262-1917. Send nominations in care of AUTO-CALL.

The Foundation For Amateur Radio

Announces The

34th ANNUAL



F.A.R.FEST

(GAITHERSBURG HAMFEST)

Sunday, September 8, 1991

Montgomery County Fairgrounds

Gaithersburg, Maryland

TALE-IE-Starting at 6:00 AM Sunday the F.A.R.FEST site talk-in station will be on the air at 146.52, for directions and information. Repeater 146.04/64 will also be used. (Courtesy Montgomery Ameteur Radio Club)

LICENSES-SALES TAX-FEE-STRUCTURES

- 2
- A TRAMPER-STRUCTURES
 A Traders License is not required by those displaying or selling goods, wares, or merchandise at this event.
 A person regularly engaged in business is required to collect Maryland State Sales Tax.
 A vendor who purchases, manufacturers, assembles, or fabricates tangible personal property specifically for resale shall be considered as "regularly engaged in business".
 Out-of-State Sales Tax Licenses are not valid in Maryland. For the convenience of those requiring Maryland Retail Sales Tax Collection Licenses there will be forms available.
 Persons not regularly engaged in business either within or out of the state of Maryland shall be considered making "casual and isolated sales" and will not be required to collect tax.
 Persons desiring to conduct business or make sales at the HAMFEST shall accept the judgment of the Hamfest Committee on all matters concerning licensing, taxes, and fee structures.

PARKING-Please note free parking areas marked on map. Cars parked illegally are subject to towing by authorities at owner's expense. EAMDICAPPED PARKING-See gate attendants at South Gate entrance.

PROCEEDS-F.A.R.FEST is sponsored by the Foundation for Amateur Radio with the support of more than 50 Affiliated Clubs in the Washington-Baltimore metropolitan areas. Its purpose is to provide a marketplace for the buying, selling, and trading of Amateur Radio and Electronic Equipment. Proceeds realized from the event will be applied toward the scholarships which are awarded annually by the Foundation and for other expenses of the organization. of the organization

RISERVATIONS-Send all requests for advanced space reservations to: Foundation for Amateur Radio P.O. Box 1068 Laurel, MD 20723

Make checks payable to Foundation for Amateur Radio. Please include name, address, and phone number on all communications. Contact Bob Moore at (301) 776-3571.

GENERAL ADMISSION-\$5.00 Adults. Children under 12 Free. Gates open 6:00 AM Sunday. (Courtesy Baltimore Amateur Radio Club, Columbia Amateur Radio Club, Rock Creek Amateur Radio Association, Vienna Wireless Society, Washington Adventist Amateur Radio Association)

COMMERCIAL and FLEE MARKET VENDORS-Enter South Gate

TAILGATING-Enter South Gate. \$7.00 per space for standard size vehicles only in areas designated. Larger vehicles will be charged on a pro-rated basis in multiples of \$7.00.

ACTIVITIES-Spouses Program-Area #4 is reserved for the afternoon. Organized activities will begin at noon (12:00) and continue into the afternoon. No child care service is provided. (Courtesy Washington Area Young Ladies Amateur Radio Club)

EMERGENCY MEDICAL SERVICE-Available at the Information Area (Courtesy the Shanandoah Mountain Rescue Group and Mount Vernon Amateur Radio Club)

Fairgrounds must be cleared by 4:30 PM Sunday.



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ORDERS & TECHNICAL 7 to 10 PM

Guest Editorial

Amateur Radio Growth David "Spike" Boyd, K9MX

It has become an article of faith among Amateur Radio operators today that the hobby they so love is no longer attracting enough new blood and is. in in the early stages of a precipitous and dangerous decline. Accordingly, argue many, it is necessary that the hobby be changed in fundamental ways to staunch the losses and regain our political clout: eliminate CW as a requirement for licensing: ease technical examinations and requirements: change band plans: pursue all those computer literate young people who we know - also as an article of faith - are held back only by the Morse Code: and whatever else comes to mind. But is this picture accurate? Are we really in decline, or even at a point where our rate of growth is no longer robust?

If these assertions are true, we will continue to lose the political clout we need to protect the hobby; if not, our claims of decline dissipate our political strength by falsely reinforcing the perception that we're a dying breed. Yet the evidence, viewed objectively, is that we not only are not in decline, but we are experiencing a rate of growth that would be the envy of any group! So let's examine the facts.

From 1934 to the present, the Amateur Radio population grew dramatically, increasing from 46,390 to more than 470,000 - more than a ten-fold increase - while the total population of the United States barely doubled That growth was not without fits and starts, as recessions, wars and social turbulence affected it, sometimes positively and sometimes not. But it is the overall pattern - which is one of growth - and not the minor blips that ought to concern us.

From 1934 to 1937, Amateur growth was essentially flat (no FCC Amateur population reports were issued from 1938 through 1947), but growth

surged as soon as the ham bands were reopened after WWII, increasing by nearly a third in a single year. Things then leveled out to a pattern of moderate growth until the advent of novice licensing in 1952, when, after a minor, two year decline in the growth rate, we had a one year spurt, which was followed immediately by a continuing decline in the rate of growth. (N.B. Only the rate of growth declined. The total number of hams continued to increase.)

Some critics, focussing on isolated annual lines. have for years argued that is was declines. incentive licensing which was the principal cause of the growth problems they claim plague the hobby to this day. Yet, the decline in our rate of growth actually began in 1947, fully twenty years before it was even seriously discussed in any of the hobby journals. (Interestingly, the only increase in our growth rate during the period of the Vietnam War -1962 to 1972 - occurred the year following the enactment of incentive licensing!) 2 At least one gullible pundit, noting that it was also in 1967 that Scholastic Aptitude Test (SAT) scores began to decline (from 958 in 1967 to a low of 891 in 1980). has even tried to blame that decline on incentive licensing, yet has accorded credit to Amateur Radio for the improvement since 1980! It is far more however, that the decline in Amateur growth and in the SAT scores were all part of the general decline in interest in things technical during that turbulent era.

The truth is that Amateur Radio has, by every objective measure, shown amazing growth over the past half century. The best measure of the success of the hobby is what proportion of the total population has shown an interest in it. See the interesting facts regarding this growth displayed below in Figure 1. (Continued)

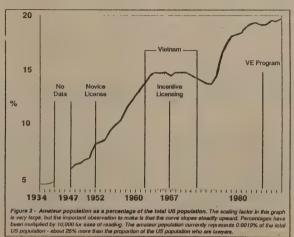


Fig 1

Amateur Radio Growth - Continued

If the hobby grows at a greater rate than does the general population, then its growth is clearly positive. We can argue that we would like to see greater growth (although how we would determine an ideal rate is anybody's guess), but we cannot argue honestly that it is in decline. By 1989 - the last year in which the ten year license does not obscure the true impact of new accessions into the hobby - Amateur growth was still nearly twice that of the general population (Figure 1).

What we are actually seeing in the declining growth rate are the inevitable effects of maturation on the Amateur population. All successful populations - and the Amateur fraternity is no exception - demonstrate a predictable statistical pattern. In the beginning, growth rates tend to be very high because the base population is low and every incremental increase represents a smaller proportional part of the whole. What we have too often forgotten is that a decline in the rate of growth is not the same as a decline in the total population. A five percent increase in the growth rate in 1952 represented only about 4,000 new hams, while the same five percent in 1987 added more than 20,000 hams to the rolls! With nearly half a million licensed hams, an increase of even 50,000 would still represent a growth of only 10%.

Obviously, the very high rates of growth we experienced in our early years could not be sustained forever, no matter what we did. Had we managed every year to increase our numbers at the nearly 50% rate we saw in 1947, we would today have nearly two trillion hams, or more than twice the total population of the earth! As it is, we have more licensed hams than we do private pilots, Certified Public Accountants, surgeons, or even lawyers (and we know we have far too many of them). Even US population growth has followed exactly the same pattern, declining from growth rates that ran over 100% in a year to less than 2% now.

A closely allied and equally false perception is that, because the fraternity isn't taking in enough fresh blood, we're "graying". Yet aging of a growing population is also, in large measure, a statistical artifact. Despite our cloudy memories of yesteryear, the truth is that Amateur Radio was always made up mostly of adults. The very young simply hadn't the wherewithal to get into the hobby. And once in the hobby, even the young grow older. One of the great strengths of Amateur Radio is that you can enjoy the hobby whatever your age, so hams tend to stay with it all their lives. And those lives, as we all know, are being made longer by medical advances.

But even if those things weren't factors, the average age of members of the hobby would still, inevitably, creep upward. The hams who in 1960 were, on average, 30 years old, are still on average 50 years old in 1980. In 1960, there were about 250,000 hams; in 1980 400,000. If all 250,000 of the hams in 1960 were only 30 (which would make them 50 in 1980), and all 150,000 of those new hams were only 30 years old in 1980, the average age would still have crept up to 42.5 years. Unless we kill every ham when he reaches the age of 50, age creep is inevitable!

Now, none of this is to suggest that we shouldn't continue to try to find ways to help the hobby grow. It does, however, suggest that we should stop playing into the hands of those who lay claim to our spectrum by suggesting - falsely - that we are anything but a robust, growing hobby. Very small groups can gain huge political clout by claiming to be much larger than they really are; huge groups - like Amateur Radio - can destroy their critical political support by convincing policy-makers that their numbers are declining and may drive away prospective hams who believe any investment in the hobby will be wasted when it dies.

Let's keep working to spread the word about our great hobby, but let's also blow our own horns, both about what we do for the public and about how much we're growing. Otherwise, the founts of doom may soon become the sources of self-fulfilling prophecies.

DDD

AUTO-CALL 32 August 1991

^{1.} Amateur population figures come from annual FCC reports, while U.S. population and SAT figures were drawn from the Statistical Abstract of the United States, published by the U.S. Census Bureau.

^{2.} Interestingly, every change made in the licensing structure - - usually to enhance growth - has had the same result. In the year immediately before the change, there is a minor decline in the rate of growth, but for a year following there is a significant increase. If "no code" follows the usual pattern, we will see a one year increase in the growth rate, followed by a return to the usual pattern. Unfortunately, the ten year license will obscure those effects until at least 1995, because "no code" came into being during a five-year period when no licenses will expire.

Southern Maryland Amateur Radio Club

Meetings: 2nd Friday of each month at 7:30 p.m.

Church of the Nativity, 5203 Manchester Dr., Temple Hills, Maryland.

Nets: Tuesdays at 8:00 p.m. on 147.75/15 Repeater

Thursdays at 8:00 p.m.on 28.447 USB

Packet: WA3TAI full service PBBS in Ackokeek, MD 145.03 & 446.075

SMD (WA3TAI-5) NET/ROM Node in Ackokeek, MD 145.03

Repeater: W3PT/R 147.75/15, Cheltenham, MD. Autopatch to 911

Mailing: P.O. Box 273, Cheltenham, MD 20623

Information: Vic & Linda Curtis, WA3YUV & KA3VNI (301) 888-1388

Field Day has come and gone, and while the rain kept some people from coming out, those of us who did make it had a great time. First of all, we need to extend a "Well Done" to KA3MVU and the food crew. They provided more hot dogs, hamburgers, beer and sodas than the operators made QSOs. We may not be in the top ten box, but nobody went away hungry. We borrowed W3PT's callsign and operated class 3A from the Moyonne Community Swimming Pool center down in Accokeek. The pool got considerably less use than in previous years due to the weather, but it was good for some entertainment late at night. Next time you talk to WI3A, ask him about his free beer from FD.

Our set up was in a large field next to the pool area that was surrounded by tall trees, so we had no shortage of antenna supports. stations were: 1) Drake C line with open wire dipole (40 CW,SSB, some 15 CW), 2) Yaesu FT-747 with coax dipoles (20 CW,SSB, 15 CW), 3) 2-Meter FM rig with Ringo Resistor. and a packet station hooked to a 4-element 2-Meter beam. KD3FO even brought a roll of hardline to feed the packet antenna. claimed it was the easiest length of feed line to bring along, but we all suspect he was just trying to show us all up. Our score sheet to ARRL claims 619 CW QSOs, 371 Phone QSOs, and 800 Bonus points for a total score of 4018 points.

We even had some air time on the local cable TV channel. KA3MVU contacted the Prince George's County local access channel, and they wanted to come out and film us in action. The only hitch was that they wanted to air the tape on Friday, and they couldn't get a camera team out on the weekend. We overcame this small obstacle by setting up a station in MVU's back yard Friday morning

and giving a "simulated FD" operation for the cameras. Next stop: CNN Headline News!!

Actually, its a good thing the camera crew couldn't come out to the FD site on Saturday. With our luck, they would have been filming one of our generators getting run over by a pick up truck (I am not making this up.) One of our members who couldn't make it to FD was kind enough to loan us his brand new 800 Watt Honda generator for the weekend. succeeded in parking a half ton Chevy pick up directly on top of the generator (right rear wheel, I think) after which, it didn't run too well (the generator, not the truck). We were able to repair the generator, though, and had it running again in less than 30 minutes. The bright side of this mess, is that SMARC now owns an 800 watt Honda generator, albeit a slightly bruised one, and Bernie, who was thinking he really should have bought a bigger generator anyway, will have a club check to cover the first 800 watts of his new one. I wonder if we can talk him into loaning us the new one next year??

One of the highlights of the weekend was seeing some of the recent graduates from our last Novice class come out to FD and get an introduction to operating. One fellow, who doesn't even have a call yet, sat down at the 40 meter station and ran CW contacts for a couple of hours. He amazed many more experienced hams by his code speed and copying ability. Maybe WI3A's method of teaching Novice CW at 20 WPM has some merit.

Most of those new Novices are now in WK3H's General/Tech upgrade class. They all seem to have a good handle on the CW. After surviving WI3A's idea of what 5 WPM is, they can already do a steady 13-15, so all Carey has to do is teach them some theory.

Metrovision Amateur TV Club

FAST SCAN - COLOR - ATV

Meetings:

Quarterly: Call for next meeting time and place.

Repeater:

WA9GVK/4 (Video and Audio) 425-431 MHz in; 438-444 MHz out

Also accessible on 144.970, simplex, audio.

On-the-air: Mailing:

Sundays at 8:00 p.m.

Information:

Metrovision, Inc., P.O. Box 8231, Falls Church, VA 22041 Dick - WB3EPX (301) 439-8135

Gene - AD3F (301) 774-5307

All of the Metrovision family wish to express their congratulations and best wishes to Mr. and Mrs. Bruce Brown. Bruce and Rhonda were married on June 8 and will be going to Hawaii on their honeymoon. We all wish them a long, happy, and prosperous life together. The second of the se

We also want to congratulate Bernie -WD40 and his wife, Evelyn, on the birth of their second grandaughter, Lydia Mae.

Our vice-president, Gene - AD3F, will soon be moving into a new hamshack. Gene and Maryellen are adding a two story section to their Olney, Maryland home and it will include two bedrooms, a family room, and of course that long awaited hamshack.

My wife, Jan, is continuing to recover from her recent cancer surgery. She has had some rough times with the chemotherapy but we know she is going to do just fine. Jan and I both appreciate the expressions of concern from our club members and friends.

In the July issue of Radio-Electronics Magazine, there is a complete set of plans for a TV color bar test generator which would be of value in ATV work. You can either build the unit from scratch or order the P.C. boards and parts. If anyone is interested in these plans, I would be happy to send a copy for a S.A.S.E.

See you on ATV.

Dick - WB3EPX

Southern Maryland ARC - Continued

Look for another SMARC Novice class to start in the fall. We are also exploring the possibility of giving liscence exams in the South County area and would appreciate input, both positive and negative from outside the club.

SMARC members were ready and available to help local hospitals when we had the big telephone outage last month. N3IAR was the first to arrive at Southern Maryland Hospital in Clinton and several of us were monitoring the repeater awaiting the call to help. Fortunately, most service was restored before too long so most of us never got out of

the standby mode. This was the third time in as many years that Southern Maryland Hospital lost phone service. The last two times the problem was just in the hospital and several of our members spent the better part of a day there before things got straightened

As always, Hams and prospective Hams living south of the border (any border, we're not fussy) are invited to our meetings at the church, just outside the Beltway at Branch Avenue.

KO7V

AUTO-CALL

Metropolitan Communications Network

Representing Six Meters in the Greater National Capital Area

Meetings: Quarterly, on the second Sunday of the month.

Time and place to be announced.

Repeater: N3AGB/R, 52.250 MHz in; 53.250 MHz out.

On-the-air: Saturdays at 2000 hours (During Daylight Saving Time)

Mailing: Bob Sporn - WA3GGO, 9927 Cottrell Tr, Silver Spring, MD 20903

Information: Bob Sporn - WA3GGO (301) 434-1719

At our June meeting we greeted our new member, Gary Mitchelson - N3JPU. Our host, C.J. (Arch) Arcilesi - K3WUR held a mini-hamfest. We learned from our Treasurer, Dick Logan - WB3EPX, that his wife, Jan, is doing well, undergoing chemo-therapy in cancer treatment. Dick Logan is also secretary of Metrovision Amateur TV Club.

President Robert Milligan - KI4MB, with pardonable pride, told us that his daughter, nine-year old Frances Milligan just get her ham license - KD4AXW. Frances' mother, Mary Milligan, is KA1KWP. Mary and Bob now have almost the entire family licensed. Frances joins her siblings, Leonard KA9QMV and Robert - KA4WPS.

The latest from SMIRK's (Six Meter International Radio Club) periodical "Six-Shooter," Edition #45 reports a SMIRK membership of 5,656 - covering all 50 states and over 100 countries.

THE SUNDAY MORNING COFFEE NET (50.4 MHz) AM AT 0900 HOURS. Kenneth McCue-K3UQQ, of Ellicott City to the north of us, checks in and we read him from the back of our beam, most of our check-ins being to the south of us. Hamfests not withstanding, our net flourishes.

MARYLAND FREESTATE SIX METER SIDEBAND NET (50.125 MHz) SUNDAYS AT 2000 HOURS EDST. From time to time we get some out-of-town check-ins, but sometimes we are surprised. WN3Y, it developed, was not a new check-in. It was La Reintz (Tony) Johnson, formerly N3FAJ.

Join us on any of the three nets.

Bob - WA3GGO

The photos below (L) show "Arch" Arcelesi - K3WUR who hosted our June Meeting and (R) Gary Mitchelson, N3JPU who joined our club.



K3WUR



N3JPU

Herndon Repeater Group

Repeater 145.31 MHz

Meetings: On-the-air meetings on alternate Mondays at 9:00 p.m.

Repeater: N4FXP/R 145.31/144.71 MHz

Packet BBS: 145.03 MHz

Mailing: Herndon Repeater Group, P.O. Box 5073, Herndon, VA 22070

Training: Michael Weber - WB8RDN (703) 450-2304 Information: Michael Rosati - N4FXP (703) 481-8380

The Herndon Repeater Group is a growing association of Radio Amateurs residing primarily in the Western Fairfax and Eastern Loudoun County area of Northern Virginia. At the present time we have a membership base of around 40 Hams and we hold our regular "On-the-Air" meetings on the Herndon

145.31/144.71 MHz Repeater - N4FXP/R. The club repeater has autopatch and is located near the intersection of the Dulles Toll Road and Route 28, adjacent to Dulles Airport. A Repeater voice announcement can be heard several days prior to the meetings to remind users that "Net Night" is coming up.

The current slate of club officers is:

President: Mike - N4FXP Vice Pres: Jack - N4ULS Sec/Treas: Ruthie - N4QGT

Also assisting are:

Craig - WA3RGH as Public Releations Director

John - KI4RO as Packet Coordinator;

Bill - N4WJN as Special Events Coordinator and Mike - WB8RDN as Education/Training Liaison.

The Herndon Repeater Group is pleased to become a member of the Foundation for Amateur Radio and to participate in the Auto-Call. We are a public service oriented club and contribute to public service events such as the Multiple Sclerosis Walkathon and 150K Bike Tour, the upcoming Reston Youth Triathalon, etc. We maintain the N4FXP/R Repeater on 145.31/144.71 MHz and coordinate a Packet BBS on 145.03 MHz. We just recently worked Field Day as a 3A QRP/Battery entry, skillfully coordinated by Bill N4WJN. We plan to provide ARRL/VEC exam testing each April and October and, starting on September 7, we will

sponsor a FREE 12 weeks Novice and No-Code Technician training course. The classes will be held at the Herndon Police Station on Saturdays from 9:00 a.m. - Noon. For further information, contact Michael Weber - WB8RDN at (703) 450-2304. The class will be limited to 25 students.

Next month we will go into more detail about how HRG was formed and where we are headed. In the mean time, we welcome you to the 145.31 Herndon Repeater and the 145.03 Packet BBS at any time.

Michael Weber - WB8RDN



Montgomery Amateur Radio Club

1st and 3rd Wednesdays of each month at 7:30 p.m. Meetings:

Executive Office Bldg. Montgomery Co. Government Center, 101 Monroe St., Rockville, MD. Park underground on G-2. 146.04 in (Rockville & Germantown)/146.64 out (Rockville)

Repeater: Mailing: M.A.R.C., P.O. Box 611, Gaithersburg, Maryland 20877-0611 Information: Jeff Horlick - KZ3F (301)258-0112; Steve Todd - K2IYQ (301)253-4172

Ken Nichols - KD3VK(301)977-5405; Dick Hayman - K3DML (301)251-8721 Training:

FIELD DAY EDITION

Your Amateur Reporter has decided to devote this month's column entirely to the events leading up to and surrounding MARC's Field Day, held once again this year (by semipopular demand!) at Little Bennett Regional Park, Clarksville, MD, on June 22-23. Although the Club entertained several gracious proposals to co-locate & co-operate with other local clubs, in the end MARC decided to 'go it alone' using the Club's quasi-traditional QRP mode of operation. Thus, by definition, MARC was limited to 5 watts of output power. Folks, what we're talking here is (strictly) battery-powered and solar-powered stations! As a qualified "Club station," MARC's appropriate contest response was the '3A - MARYLAND' designator. Sounds simple, eh? (Take it from a Field Day neophyte -- i.e., one only recently initiated into the Ancient Rituals of Guglielmo Marconi -- even a simple incantation such as {...- .- -- -..} takes on complex overtones at 40 wpm CW!!)

It goes without saying that an operation of the size and scope of Field Day doesn't happen (1) overnight or (2) "by magic." On the contrary, many interested individuals. both hams and non-hams, Club members and otherwise, contributed their individual and collective time, transmitters, and 'too numerous to tally' talents, to make Field Day a success.

Not being all that familiar with each and every person's contribution and/or new/old call sign, the 'safe way' for a reporter to handle this sticky wicket is to issue a generic statement -- such as the one immediately preceding. Somehow, that doesn't do justice either. So, given the fact that certain names. call signs, and/or the nature of specific contributions to Field Day may be missing from the writer's repertoire, it was deemed reasonable

to cite the fact, where known. NOW HEAR THIS! If a contributor (not named here) wishes to provide input to either the Club of the Amateur Reporter, he or she is encouraged to do so. We will be delighted to publish all particulars in a future issue. For openers, the "Appreciation Matrix" on the next page will have to suffice!

It is not possible to compress 24 hours' worth of Field Day data into a simple news article. However, if the Amateur Reporter could leave the reader with only one vignette of a typical operational scenario, it would be just this:

The soft sound of rain falling hour after hour without end (amen) on that oh-so-chicblue-tarp-for-a-roof; combined with the odiferous scent of Cutter's 'non-scented' bug spray wafting across the clammy night air; not to forget that faint, erie glow of K3DML's battery-powered supertwist, backlit laptop screen inexorably searching out "duplicates" in the log -- all the while, K3YNY and K3DML are working feverishly in tandem: one to track & stalk Field Day 'victims;' the other (clipping along at 35-40 wpm on 40 meters cw) in hot pursuit -closing in for the "QRP kill" -- all in a manner of speaking, of course

With Field Day (as with life), "there are no guarantees." Despite the fact it rained on MARC's parade, (heck, it poured on MARC's parade...), an "interesting time" was had by all. (Another way of putting it might be to chalk up Field Day 1991 as a learning experience!)

Erinn - N3HSA

See "Appreciation Matrix" on next page.

Quarter Century Wireless Association

Chapter 23 and Chapter 91 Joint Meeting

Washington, DC Chapter #23 and Vic Clark Chapter #91 were hosted at a joint picnic meeting on June 29 at the home of Ethel Smith - K4LMB. This was the second quarterly meeting of the year for Chapter #23 and it was well represented by 15 members: Chapter #23 President W3AFV, W3HXF, W3RY, W3TFA, W4GF, W4HU, W4HV, K4JAP, N4JGQ, W4JT, K4LMB, N4MLC, K4MM, W4SWP, and W4ZC. Vic Clark Chapter #91 was also well represented. A number of the Virginia members have also retained membership in the DC Chapter, since it was the original chapter in the Washington area.

The 97° weather prompted most members to move into the air-conditioned basement,

but a few hardy souls spent most of their time outside close to the barbecue grill. Chapter #91 President, John Swafford - W4HU was chief chef. The food was great and everyone had a wonderful time. It was nice to see so many familiar faces once again and another joint meeting has been scheduled for the latter part of October.

If you are a QCWA member - or eligible to be a member - you are most cordially invited to attend the October meeting. For more information, contact Stan Brigham - W3TFA (301) 434-6227 (on the Maryland side of the river) or John Swafford - W4HU (on the Virginia side).

Stan Brigham - W3TFA Chapter #23 Sec/Treas

Montgomery Amateur Radio Club - Continued

Steve - K2IYQ Ditto Stew - KC3K Andrea - KA3WHW Judy Todd Rick - K3YNY Larry - N3BE Dick - K3DML Ken - KD3VK Tom - KA3GJZ Claudio - KA3USC Howard - WB3KHQ J.B. - W3RPQ Chris - KA3USE Howard - WJ3F Jane - KA3YWU Josh - KA3YGT Bob - N3JLN Ken - N3JBU Ray - M3HTB Jamie -N3IDF Jim - W3CKU Erinn - N3HSA John - Call Sign? Your Name Here

Hebrew National Franks Pizza-Lunch (Sunday) Hamburgers & 'Fixings' Dinner, Breakfast, etc. Dinner, Breakfast, etc. Overall Coordinator 3A 'MARC Station Call Sign' Xmitter, Tarp, Laptop Novice Station, Logging S/W Transmitter, Antennas Card table for Dining, etc. Van, Cooler, Packet Station RV (Operating Station) Operated RV Station Cutter Insect Repellent Cooking Stove, Coffee Pot Sling-shot Expert Antenna Put-up, Take-down Solar Station Cheering section for N3IDF Cheering section for N3HTB "QRP in a Suitcase" 2 CW Contacts (met quota!) CW Support to N3HSA If we missed you,

"Answers to a Higher Authority"

Silent Partner Lifesaver I Lifesaver II Job Well Done Indispensable "DUP" !!!! Josh Thanks You ALIAS N3ISV Almost Like Home Knows the Drill "Gimme Shelter" Warm & Dry My Main Man Wilderness-Saavy **Novice Station Call** 1/2 Novice Station "5 solars" - 100 Points Time Out from Work Time Out from Work Details Next Issue Hip, Hip, Hooray I needed That ... Please advise MARC

Laurel Amateur Radio Club

A Volunteer Examiner Coordinator

Meetings: 4th Wednesday of each month (except November & December)

8:00 p.m. at Harrison-Beard Building on the corner of

9th and Montgomery, Laurel, MD

Nets: 1st & 3rd & 5th Wednesday of each month, 8:30 p.m. on 147.540 simplex. Mail:

P.O. Box 3039, Laurel, MD 20709-0039

Exams: 3rd Saturday of each month, 10:00 a.m. at Maryland Radio Center.

Pud Reaver - W3DQI (301) 498-6293 & John Albertine - W3GFS (301) 317-8221 Training: Information:

Bill Bowden - KD3EC (301) 776-4083 or Jim Cross - WI3N (301) 725-6829

Field Day 1991 is history, and what a weekend it was, from raising the beam on W3GFS' tower to the final clean-up Sunday afternoon. A total of 38 club members and guests combined to keep things going over a very wet, wet weekend. Indeed, four annual Field Days I experienced in England were all Thanks to everyone for making it a great success - 200 CW contacts and over 1300 SSB contacts according to the W3DQI tally.

Field Day '91 memories: Who could forget (especially AL7LQ and WI3N) the beam raising in that rain . . recorded on video (see below). The success again of the annual pot luck supper, truly the social highlight of our club year. The long night, with just four of us operating on site, keeping three HF stations going. The rains, always increasing just as the generators ran out of gas.

LARC has received some good publicity of late, beginning with the article in the Laurel Leader of 20 June. Thanks to Frank - K3LDE for the use of his shack and tower for the interview and pictures. On Field Day, Laurel Cable (Channel 10) was on site in the morning, and again later in the afternoon, taping a future (to be aired this fall) "Hi Neighbor" show on our club. This show runs 30 minutes on Monday and Thursday evenings. Thanks to Pat Walsh and his crew for braving the weather to be out there with us. Also circulating among club members now is the Channel 10 video of the Ron Parise - WA4SIR presentation to our club earlier this year, an excellent record of that fine evening.

Still to come this summer, a possible Special Event station. Contact W3GFS to volunteer support. This fall we'll also need some volunteers to participate in the JOTA (Jamboree On The Air) Scout weekend in October.

It was good to see the large attendance at our June meeting - 35 in all. It's time to start thinking about our Christmas dinner for this year.

Those of you who missed the June meeting missed a very interesting talk by Kevin - NN3I on the operation of the 3rd District QSL Bureau, operated by C-CARS in New Kingston, Topics of interest to DXers, such as postage, handling, response time, SWL cards, and the many facets of operation of a major QSL Bureau operation were covered, and will be highlighted in the July issue of the club newsletter "Feedback."

During late summer and fall, members will be involved in refurbishing and equipping the room in the Harrison-Beard Building (upstairs from our meeting location) in Laurel. This will become the club shack as well as repository of club equipment, and we hope to be on the air with a club station in time for Sweepstakes. Our good fortune in being able to use the facilities at this location for our meetings and future shack is a direct result of public service to the city of Laurel, specifically those events where we provide safety/emergency communications, as recently acknowledged in a letter of thanks from the mayor!

Fall sees the resumption of our license classes, and this year we're hoping to offer an entry level program to suit those interested in obtaining a Novice or a Codeless Technician class of license. Additional details will be coming.

Bill Bowden - KD3EC

Antietam Radio Association W3CWC

Meetings: 1st and 3rd Tuesdays of each month at 8:00 p.m. at the

Civil Defense Center, Washington County Courthouse

Hagerstown, Maryland

Nets: Tuesday: 7:00 p.m. 146.940/340 MHz FM

Wednesday: 7:00 p.m. 447.975/442.975 MHz FM

Thursday: 7:00 p.m. 147.090/690 MHz FM

Mailing: Antietam Radio Association, P.O. Box 52, Hagerston, MD 21741

1991 FIELD DAY

The Antietam Radio Association held its Field Day for the second year on the grounds of Potomac Edison. In addition to ATV and Packet, we had six stations operating. Stan Klick - W3YGC recorded the Field Day event with a VCR camcorder, which Larry Horst - KA3SDJ immediately played back via ATV so everyone could see first hand exactly what they were doing. Saturday culminated with the traditional BBQ'd steak dinner, prepared by Jim Eisenhart. While we may not break any records for contacts, we would be hard-pressed to beat it for having a great time.

SKYWARN

The second meeting of June was held at the Hagerstown Junior College and was devoted entirely to a Skywarn training session. It was presented by the National Weather Service and was open to all who wished to attend. There were about 30 in attendance, about equally split between Hams and others. The purpose was to train observers for advanced warning of impending storms.

The presentation dealt primarily with what to look for in the cloud formation. Arrangements for the training session were made by The Antietam Radio Association through their ARES/RACES officer, Charles Anderson - NF3X. Charlie is also a member of SKYWARN.

NOVICE/TECH CLASSES

The Antietam Radio Association is conducting a course leading to an Amateur Radio License - Novice, Technician, or the new No-Code Technician. Classes, which began on July 8, are being held at the Washington County Civil Defense Center in the basement of the Court House. Participating Amateur Radio Operators are Jerry Metz - W3BRZ, Bill Drager - K3UMV, Page Pyne - WA3EOP, Charlie Anderson - NF3X, and Don Marsden - KD3TY. Contact us for more details.

Don Marsden - KD3TY

Foundation Meetings

The Foundation for Amateur Radio meets at 8:00 p.m. on the second Wednesday of each month.

Meetings alternate between Maryland and Virginia:

In even numbered months, meetings are held in Takoma Park, Maryland In odd numbered months, meetings are held in Alexandria, Virginia

Visitors are always welcome

Membership is open to any Amateur Radio organization in the local area.

Phone (703) 536-8469 for information

The next meeting will be on August 14 in Takoma Park, Maryland Columbia Union College Science Building Auditorium, Flower Avenue Talk-in on 147.18

Pentagon Amateur Radio Club

Meetings Monthly, on the second Wednesday of the month. Noon.

PARC clubroom (5B272), The Pentagon

Repeater: K4AF/R, 444.55 MHz. CTCSS 88.5 sometimes in effect. Packet: 145.07 Digi - K4AF, Mailbox - PARC, Node - PNTAGN

Mailing: P.O. Box 47063, Washington, DC 20050

Information: David G. Boyd - K9MX (703) 695-2020 or (703) 659-6241 or William Klein - N4VBW (703) 697-8157 or (703) 590-2546

The best way to describe this year's Field Day is to break it into two parts - the radio operation and Field Day itself. That let's us honestly say Field Day was fantastic. The radio operation - which is to say, the band conditionswere, however, something else entirely. With the high bands out (from 20 meters up) for most of the contest, PARC operation was confined mostly to 40 meters and the final score - while respectable - was noticeably down from last year.

Saturday started, of course, with rain which let up only long enough for Dave Hammond, WC4B, to do his magic with bow and arrow. He can put up five dipole antennas, and even an isopole, in just a few minutes. And each one was up over 50 feet! But not all went as well as the antenna installation.

The first problem was a packet failure; the dumb terminal turned out to have a broken circuit board in the keyboard. We got it fixed for a while anyway - but you haven't had fun until you've tried to do microelectronic repairs on a keyboard with a solder gun. It can be done, but not without some decidedly un-ham language! Anyway, once the keyboard was fixed, we hooked it all up and . . . couldn't connect with anybody. It only took the club's packet "expert" 20 minutes to figure out you need to put the radio in simplex mode to work KF4TE.



Meanwhile, N4PKL and K9MX - both knowledgeable Extra Class hams - demonstrated that a TS-440 works better once you've connected the antenna. And they figured that out in less than an hour.

Finally, everything was up and working and night began to fall, so we decided it was time to start the coffee . . . which promptly blew out every circuit breaker and took the whole club off the air. We couldn't understand why a huge Air Force generator couldn't handle five HF stations (none over 100 watts) and one coffee pot, but we shuffled the power distribution and were able to get through the night. The next morning we were reminded that officers should never be trusted with the management of any task as complicated as setting up a generator when the Air Force sergeants pointed out that we had left the power distribution in its storage compartment and tried to run everything through a single, low wattage accessory outlet. But what can you expect from staff officers?

And regarding what to expect from staff officers... Spike - K9MX may never hear the end of it. Placed in charge of buying the groceries, he did a great job of selecting fine food for the outing, but forgot the beer!

Spike, K9MX



St. Mary's County Amateur Radio Assn.

Meetings:

4th Thursday of the month, 7:30 p.m. Public Library in Lexington Park

Net:

Tuesdays, 1930 local time, on K3HKI Repeater

Repeaters:

K3HKI/R 146.04 MHz in / 146.64 MHz out. (Open Autopatch)

WA3UMY/R 222.30 MHz in / 223.90 out

WA3UMY/R 448.05 MHz in / 443.05 out. (Open Autopatch)

WA3UMY/R 52.03 MHz in / 53.03 out P.O. Box 743, California, Maryland 20619

Address:

Information: Pete Butt - WA3UMY (301) 862-2214 or Tom Clarke - W40KW (301) 862-9850

The St. Mary's County Amateur Radio Association has been very active this spring working to upgrade its repeater facilities in preparation for use by the many newly-licensed Amateurs in the area. The K3HKI/R 2-meter machine has received an "electronic facelift" consisting of a new transmitter, emergency battery backup, and new software for the RC-850 controller. In the unlikely event of main power failure, the repeater automatically switches to a lower output power and remains on the air, using a deep-discharge marine battery system. We are currently installing a satellite receiver system for the machine using links back to the main site.

At a recent meeting, new officers were elected for 1991:

Pete - WA4EIO remains in office as President Tom - W40KW stepped in as Vice President Gordon - KA3COO comes aboard as Secretary and Garner - WA3ELE was re-voted to be Treasurer (for at least the 15th straight year.

Congratulations to all of these fine gentlemen for agreeing to help guide the Association as we grow to serve the community.

The SMCARA, formed over 30 years ago by a small group in Southern Maryland, has grown to where we now have well over 100 members who are actively involved in various Amateur Radio interests - including HF, AM, CW, SSB, AMTOR, VHF/UHF, Packet, RTTY, microwave technology, and hamfesting! The technology may be changing but the interest level still remains high. The influx of newly-licensed Amateurs promises to stimulate a great deal of activity in alternative modes of communication and public service activities, since many of our new members have spent years supporting their community through citizen's radio and groups such as REACT, etc.

One of the favorite activities of Amateurs in Southern Maryland is attending Hamfests!. Many of our members were at Dayton this year looking over all the goodies and, if that wasn't enough, they are travelling to all the local 'fests in the metro area. There is only one store down here that carries some Amateur radio-related items and no full-service Amateur Radio dealers. As you can imagine, we burn up the 800 numbers on a daily basis trying to get the latest gear.

The next big event scheduled is a club picnic and pool party at the QTH of WA3UMY, scheduled for Noon Saturday, 3 August. We hope to see you there!

Pete Butt - WA3UMY

If you help a friend in need, he is sure to remember you - the next time he's in need. (ARNS Bulletin 1/91)

Vienna Wireless Society

25 Years of Public Service

Meetings: 2nd and 4th Fridays of each month, 7:30 p.m.

Vienna Community Center, 120 Cherry Street, Vienna, VA

Repeaters: K4HTA/R 146.085 in/146.685 out

222.340 in/223.940 out, 448.250 in/443.250 out

Nets: Every Thursday at 7:30 p.m. on 146.085 in and 146.685 out.

Pow-Wow Net Every Night at 9:00 p.m. at 28.400 MHz

Information: Pat Crosby, KA4FHK (703) 978-6316 (H); (301) 731-9800 (W)

Training Classes: Paul Wilkins, AB4CY (703) 560-2779
Mailing Address: P.O. Box 418, Vienna, VA 22183

With a lot of help from members as well as non-members, we just completed another successful Field Day. It will take a few days for the equipment and clothes to dry out. A great day in spite of the rain. A good day to test our readiness.

Thanks to this year's Field Day general, Mac-KC4IGS, everything was organized and ready to go. In the weeks prior to the actual day, Mac saw to it we had band captains, generators, food chairman, operators for each band ready to operate, park site reserved, tents found, press releases sent out, and the information booth set.

Field Day came under cloudy skies with a good chance of rain . . . It did come as we were setting up antennas. Tents for the equipment were set up to keep the rigs dry and tents were set up for the folks who would take short naps in the hours they were not actually at the rig. Thanks to our food chairman, Paul - AB4CY, all present were well fed. The band captains were: Skip - WA4UAU on 10-meters, Art - N4JMJ for 15-meters, Ben - W4FQT in charge of 20-meters, Dale - W4DM the captain of 40, Margey - N2JRG the boss of the 80-meter gang and

Mark - N4TPY with lots of assistance from Mike - WA2HEE, and Mel - KN4ZT on Satellite, and Jeff - W4NFA on packet. The information booth was manned by Phil - KC4MLC.

We had reporters out from the Vienna Times and The Connection, with a photographer from The Connection. Fine articles were published in both of those newspapers.

Final Field Day results will be announced at the first regular meeting in July — the second Friday — at the Vienna Community Center.

In case of an emergency, the VWS 2-meter repeater has emergency autodial numbers . . . touchtone (TT) 60 for Vienna police, touchtone (TT) 61 for Fairfax police, TT 62 for the Virginia police and TT 63 to reach the Fairfax County fire department. Touchtone pound sign (#) to hang up. We also have TT 80 for the time of day. Keep these numbers handy and please use them in case of emergency.

Pat - KA4FHK VWS President



Woodbridge Wireless, Inc

Meetings: 3rd Tuesday of each month, at 7:30 p.m.

Tall Oaks Community Center, Lake Ridge.

Intersection of Hedges Run Drive and Cotton Mill Drive.

Repeater: WB4FQR/R 147.84/24 and 449.9/444.9

WB4GJZ/R 223.18/78

Nets: Mondays, 8:00 p.m. local (0100 UTC) 147.84/24, 223.18/224/78

(the repeaters are linked for the net.)

Wednesdays, Slow CW at 8:00 p.m., 21.164 MHz

Saturdays 9:00 p.m. - in new 10 Meter Novice band 28.460 MHz SSB

Mailing Address: P.O. Box 112, Woodbridge, VA 22194

Woodbridge Wireless, Inc. worked to provide communications help for the biggest Dale City 4th of July parade ever (over 100 units). Thanks to OP (KF4TE), Dave (AC4DS), Jack (WD4KOF), Dale (WA2IKI), John (N4LSO), Rick (KC4PYS), Mack (N4WJO), John (N4LJS), Lou (KØRI), Gerald (KC4RGD), and Jim (WJ4M) who worked the parade and all (including Ron, KU7V) who volunteered to give up part of their 4th of July (especially the sleeping in part) to work the parade and the footrace which preceded the parade. For the race, it was Mack, N4WJO at the start/finish and Jack, WD4KOF and Dale WA2IKI at the turnaround point who did the heavy work. For the parade, OP and Dave did yeoman duty assisting the parade officials who were lining up the units at the staging area. The officials were quick to realize the added safety and organization the presence of hams brings. The WWI and Amateur Radio received plenty of public mention via the cable TV coverage of the parade.

Congratulations to the WWI gang for our 19th Woodbridge Wireless (Society/Inc) Field Day. Total QSOs were 4150, Class 11A. Bonus points will probably be 2000 for a predicted total score of 12,880. This is 220 points better than our 1989 results in spite of the rain and some unfriendly band conditions. We inducted two new members into the Hoadly Toadleys FD association.

We did try out a concept described last April by Terry, WA5NTI. It's a local area network (via packet radio) for central monitoring and logging of contacts. It was developed by Terry, WA5NTI and was put into action by him and Stu, WA0DYJ. About 5 of our stations were connected to "tent central" by packet radio. Whenever a contact was logged on the local station computer, the information was also sent via packet to a master computer/logger in

"Tent Central" (actually a van with a 386 Tower computer running on a UPS). There an operator could continually monitor contacts being made. At the close of Field Day, the database was organized, sorted and reports (including graphs, etc.) were printed out before the stations could be dismantled! Terry, and Stu did an excellent job of bringing the FD Tent Central LAN logging system into being by Field At the April meeting it was just a While the actual setup was not concept. completely successful (the program did tend to hang up occasionally and not all stations were equipped with the packet connection) the concept was proven to be sound and practicable. When the guys get through with a complete debriefing, we'll try to report more on this fascinating project.

That's it for this month. Everyone remember to ground your antennas while the summer lightning dances about.

Jim - WJ4M



Anne Arundel Radio Club

Meetings: First and Third Thursdays at 8:00 p.m.

Davidsonville Family Recreation Center, Queen Anne Bridge &

Wayson Roads off Md. Rt 214 near Annapolis

On-the-Air Thursdays when there is no club meeting, 2030 Local on 147.705/105

Tuesdays at 2030 Local time on 28.410

The Chesapeake Bay Weather & Traffic Net on 147.705/105 at 1100 and 1500

every weekend day and public holiday from April 1 to November 15. Maryland Slow Net (MSN) every evening at 1930 on 3.7170 MHz

Address: P.O. Box 308, Davidsonville, MD 21035 Information: Margaret (Holly) Bevan, (301) 923-0229

What a busy, busy, busy month June was! The Anne Arundel Radio Club participated in several public service events, held the annual family picnic and then, of course, worked Field Day. All these activities kept the membership hopping, some more than others.

The first event of the month was the DFRC (Davidsonville Family Recreation Center) Flea Market. The next weekend was a "double header." To celebrate Safe Boating Week, the Department of Natural Resources Boating Administration held Boating Fun Fest '91 at Sandy Point State Park on June 8th. AARC was requested to furnish communications, including the PA system. Club members also demonstrated Amateur Radio to the public with a packet station and an HF station. But, the "biggie" was the Bay Bridge Swim on June 9th.

The day was perfect but the water was treacherous. Because the race started late. the swimmers were caught in an unusually strong ebb tide and most of them (720) had to be taken from the water, either because they gave up or because they were swept out of the course and disqualified. There were only 56 boats on hand, which proved to be inadequate for the task. The Coast Guard had to intervene. There was a Ham aboard each of the 56 boats (20 or more were AARC members, the rest were from various other clubs in the general area). The Hams played a vital role in the procedure by maintaining communications between the boats and between the boats and the officials ashore. Kudos to all of them!

The guest speaker for the June 20th club meeting was William E. (Bill) Leavitt - W3AZ of Accokeek, Maryland. He gave a very

informative (and nostalgic for some) history of coils and condensers, with examples of some of the more interesting. Bill, a Ham for 55 years, worked at the Naval Research Laboratory for 35 years, and has since worked with moonbounce and commercial satellites.

The annual AARC Family Picnic on June 15th was a great success; food and fellowship abounded. Guest Bobbie Rogers - N3IAR repeated some of the comments from her article which appeared recently in QST, explaining why she finally became a Ham.

The absence of Club President Doug Sweely and his XYL, Lori, from the picnic was due to the arrival of Kate Sweely (8 pounds, 2 ounces and 20 inches long) at 1:50 p.m. that afternoon. All are doing fine.

About 30 Club members participated in Field Day. Two FD stations, a Novice/Tech station and a packet station, were set up on the grounds of the DFRC. They all ran low power, using batteries charged by solar panels (except on Sunday when the lack of sun prevented their use). Over 400 contacts were made (mostly CW), including 36 points for the Novice station. The total score will include all possible 700 bonus points.

Bob White advanced to Extra class and changed his call from N3JIP to WO3B. Charles Boling upgraded to Advanced and changed his call from KA3URT to KD3UB. Cyndi Barrett - KA3UQZ and Gene Edmonds - N3JOH now hold General class licenses.

Holly - N3BMB

Department of State ARC

Meetings: First working Monday of each month at 1200 Noon.

Main State Department Bldg, Room 3524, Washington, DC

Repeater: W3DOS/R 145.19 MHz (open rptr), Round Table, Thursdays 2030L

W3DOS/R located at 23rd & D Sts. N.W. Washington, D.C. DOSARC encourages repeater use for public service events in

Washington area (e.g., Mall) and for general usage.

Mail: Department of State Amateur Radio Club

Department of State (FARA) Washington, DC 20520

Information: Tom, K3TW (301) 894-6678 (H)

Dave, AA4IC (703) 329-1949 (H)

FIELD DAY AT MARLOW HEIGHTS

More specifically, Field Day at Temple Hills Community Park - it wasn't the Mall, but it was one beautiful site.

1A MDC W3DOS came from two operators - Fred, K3ZO and Tom, K3TW. John, W4HU filled in from time to time and tried to keep the dupe sheets up-to-date. The whole setup included one transceiver, one wire antenna and one generator. Considering the station was not manned from 1230A to 0630, we did reasonably well. Tom reports the following results:

387 CW Contacts 181 SSB Contacts

Total points, including 400 bonus points, were 2310.

Kudos go to Tom, K3TW for his outstanding efforts. He planned and setup the entire FD station, including the antenna supported by 80 foot trees - and all this installed in the rain without a single grumble!

To top that off he operated 2/3 of the time. Watching two world-class operators on Field Day is something to behold.

John W4HU

MADRAS

The Maryland Apple Dumpling Radio Amateur Society Inc.

Meetings: 2nd and 4th Tuesday of the Month - 7:00 p.m.

At the WKYS conference room in the NBC Building, 4001 Nebraska Avenue, N.W. Washington, DC

Repeater: 444.100/449.100 MHz 145.45/144.85 MHz

Mailing: P.O. Box 2468, Wheaton, MD 20902 Information: Larry Zeicheck, N3GKZ (301) 984-6112

*** 1.732" "

Meetings are pretty informal during the summer months, but there will be a meeting on August 20. We hope to see you there.

John Kingdon - KA3VJH

How It All Started

"Spike" Boyd, W9MX and the Eight Ham Family

The family first got into Amateur Radio in 1961. I was riding home with my scoutmaster, KØTTG, from Boy Scout summer camp when he made a call on 6 meters, using a Benton Harbor lunchboox (a Heathkit Sixer). It was only a five watt, crystal controlled AM rig, but I was impressed and started asking questions. When I told my dad I wanted to get a radio license, he said that was fine but he wasn't getting involved because he already had too many hobbies. But, he said, if I would get a paper route to earn money for my station, he'd pay half. So I was soon enrolled in a Novice class at World Radio Laboratories in Council Bluffs, Iowa.

The same week I received my new call - WN0AOO - I got a letter from my cousin Mickey in California telling me all about his new hobby and his new callsign, and suggesting I get involved as well. Not long after, WV6UER and WV6UES (Mickey's dad and my father's older brother) and I were plodding along at five words per minute on 15-meters with my dad hanging over my shoulder asking, "What'd he say? Tell him this." Six months later dad was WN0AOO, and a few months later my brother Tim was WN0CBE.

We've been licensed ever since, and ham radio has been the single most important communications medium for the family. That's why we decided to do a family QSL card about 17 years ago, and have updated as other members of the family have been licensed. Today, there are eight ham calls on the card. [Editor's Note: They even offer a Worked All Boyd Award.]

A Super Hobby for All Ages

A lot of us remember as far back in the 1920s when we used the old oatmeal box with a coil of wire wrapped around it as an antenna and the cat's whisker tickling the galena crystal and an earphone to complete our radio. We have been very much intrigued with radio ever since. In the 1930s we were learning the Morse Code and the letters of the alphabet for a merit badge in the Boy Scouts.

I wasn't lucky enough to get into radio during World War II, but I took a correspondence course on the G.I. Bill after being discharged from the Navy. I remember sitting ukp into the early morning hours working on the different radio circuit kits that were sent to me and then sending in the test questions with the results I found. They sent me all the parts to build a vacuum tube voltmeter, signal tracer, signal generator, and the last and ultimate of kits was the chassis, parts and schematic to build a 5 tube superheterodyne radio. Boy! How I loved that radio. I even built a mahogany cabinet for it.

Then there was a long period when I lost touch with this super hobby. When the children came along I had to work to jobs to make ends meet and didn't have time for a hobby. I just never got back to my love for radio. Then, like God had willed it to be be, a friend asked me to join a Novice class with him. And am I glad that I did! Now, in the September of my life, I am like a youngster with a new bicycle. Always wiping off the rig, adjusting something to try to make it run smoother and getting on it to go somewhere new and different. You can bet your life I now find time for Amateur Radio. It is truly a "Super Hobby" for all ages and I am so glad I finally got into it.

Ken Easton - N3HLY

G AND G ELECTRONICS

OF MARYLAND

8524 DAKOTA DRIVE, GAITHERSBURG, MD.

WANTED FOR CASH!

USED Ham Gear, Test Equip. and Junque Boxes

G&G ELECTRONICS OF MARYLAND JEFFREY GOLDMAN	548
8524 DAKOTA DRIVE (301) 258-7373 GAITHERSBURG, MD 20877	March 1 19 87 65-7198/2550
PAY TO THE John Q. Amateur, WA4XYZ	\$ 500.00
Five Hundred and 00/100	DOLLARS
CHEVY CHASE SAVINGS AND LOAN, INC. CHEVY CHASE, MARYLAND 20815	
FOR Used Equipment	==== SAMPLE =====
1:2550719811:	0548

We've got one for you!

HOURS: MON & TUES 11 AM TO 9 PM
WED 11 TO 5 & BY APPOINTMENT

258.7373

SHACK SALES

Noncommercial advertising of Amateur associated equipment is available to subscribers of AUTO-CALL at a rate of 3¢ per word -- with a \$1 minimum. Commercial vendors and non-subscriber rate is 17¢ per word - with a \$5.50 (1 inch) minimum. Special headings or special spacing (e.g. one item per line) may be used but such ads will be charged at the column inch rate. Estate sales for Widows Assistance handled by a FAR club will be published without cost.

Full name and address must be provided with each ad but need not be published. No ads will be accepted over the telephone and all ads must be pre-paid. Since no effort is made to investigate advertisers, no warranty can be implied.

Copy must be received by the 5th of the month preceding publication.

WANTED: Need original or copies of manuals for Novice Loaner Equipment Pool:

YAESU FT-101, HEATH SB-102, HAMMERLUND HQ-215. Will pay reasonable copy cost. Contact Ken Nichols - KD3VK (301) 977-5405 evenings. (08)

WANTED: ICOM 24AT HT. Call John at (703) 250-1034, or write to 10724 Shingle Oak Court, Burke, VA 22015 (08)

FOR SALE: ICOM IC-725 & PS-55, manuals and original packing, like new \$725 Leader LBO-517 50 MHz, 4 trace, dual timebase O-scope with manuals \$600 Wavetek 3000 Signal Generator .5 to 520 MHz PLL +10dBm to -130dBm step atten. output. With service manual. Calibrated \$900 Call Greg (703) 430-5664, Herndon, VA (08)

FOR SALE: Complete Station:
TS430S Transceiver
SB220 2KW Amplifier
SA-2060 Antenna Tuner
E-Z WAY RBS-40 Tower
Hy Gain TH50XX Tri-bander
CD45 Rotator/Control
Best Offer

Mort Cohen - K3EH, (301) 299-6562, Potomac, Maryland (08)

> Need antenna or tower work done? Call L. Chertok - W3GRF. (301) 297-4888

HOUSE FOR SALE: QTH at Cannon Bluff in Woodbridge, VA. 1 acre spacious level lot with privacy and NO ANTENNA RESTRICTIONS. Spacious 4 bedroom, 2½ bath, center hall colonial with completely finished basement for ham shack. Listed at \$218,900. Price includes antenna tower and new triband beam. Paul Bauer - N3DAN, 11708 Bacon Race Rd., Woodbridge, VA 22192 (703) 590-0843 (11)

REMEMBER the FAMOUS BRATS Maryland
HAMFEST and COMPUTERFEST,
Sunday, July 28, 1991
at the Timonium Fairgrounds
Timonium (Baltimore) Maryland
(301) 583-9147 or write The BRATS
P.O. Box 5915; Baltimore, MD 21208

WANTED: ICOM PS-35 internal compact AC power supply. Contact Ken Nichols - KD3VK (301) 977-5405 evenings. (08)

NORM'S ROTOR SERVICE

Rebuilt Rotors, Parts & Service Call Norm Jeweler - K3LYW 5263 Agro Drive Frederick, MD 21701 (301) 874-5885

SHACK SALES

WORLDRADIO, Amateur Radio's monthly newspaper can be delivered to your doorstep for only \$14 per year (\$24 overseas). Get the latest on how your fellow amateurs use their hobby to help others. Regular features are Contest and Hamfest announcements, Aerials, Amateur Satellites, Continuous Wave, Digital Bus, DX World, Search & Rescue Communications, FCC Highlights, Mobile, New Products, Propagation, QCWA, QRP, Station Appearance, Traffic, VE Exams, International News. Send subscription to WORLDRADIO, 201 Lathrop Way, Ste. D, Sacramento, CA 95815.

WANTED: Manual for Astatic D104 Silver Eagle microphone - original or copy. Also WANT MH-1B8 or other late model Yaesu hand/mobile microphone. Call Bill Dize - WD4DAM (703) 648-6289 (days) or (703) 266-3418 (evenings), Centerville, VA (08)

Become a part of one of the country's fastest growing vintage radio clubs. The Mid-Atlantic Antique Radio Club is an active group of radio collectors, restorers and historians. For a sample newsletter, write to Joe Koester at 249 Spring Gap South, Laurel, MD 20707. Phone (301) 725-4229. (Swp)

FOR SALE: Royal 5030 Daisy Wheel Memory Typewriter, 15" platten. Documentation. Interface to computer. Cost \$1800 in 1982. Now looking for good home. (703) 536-8469

WANTED: HAM EQUIPMENT AND OTHER PROPERTY. The Radio Club of Junior High School 22 NYC, Inc. is a nonprofit organization, granted 501(C)(3) status by the IRS and incorporated with the goal of using the theme of ham radio to further and enhance the education of young people nationwide. Your property donation or financial support would be greatly appreciated and acknowledged with a receipt for your tax deductible Please look over whatever contribution. unwanted equipment you may have and call us. We will pick up or arrange shipping. You will receive the tax deduction, but most important, the privilege of knowing that your gift really made a difference in the education and upbringing of a child. Meet us on the WB2JKJ CLASSROOM NET, 1100 UTC on MHz., and we hope to see you at SOUTH-WESTERN DIVISION CONVENTION in August. Write us at: THE RC OF JHS 22 NYC, INC, P.O. Box 1052, New York, NY 10002. 'Round the clock HOTLINES: Voice (516) 674-4072, FAX (516) 674-9600

FOR SALE: HEATHKIT SB-110 six-meter SSB Transceiver with AC power supply & manuals, needs minor repair/alignment \$125 Hy-Gain 4-element 6-meter beam . . . \$45 AEA Isopole 144 base station antenna, never used \$40 Raytrack speech processor with connectors for old Drake/Collins and Heathkit \$25 Carl - K3RV (703) 242-0360, Vienna, VA (08)





COMPUTER CORNER

FOR SALE: COMMODORE C-64 Computer, with 1541 Disk Drive, 1702 color monitor, Model M120 Blue Chip Printer, 1200 baud Modem, 2 Joy Sticks and hundreds of programs, including Data Base, Spreadsheet, Word Processors, Educational, Communications and many many games. Manuals on all hardware and most software. Will demonstrate to serious buyer. A Steal at \$400 Call Lou - W4MLR at (301) 572-7116 anytime, Beltsville, MD (08)

FOR SALE: CUSHCRAFT A3 Tribander (New) stainless hardware; HEATH SB-220 amplifier, (2KW) immaculate. Bob Jeffrey - KE4SQ (703) 548-4031, Alexandria, VA (08)

FOR SALE: REGENCY Model TM-H2 Receiver				
146-174 MHz \$45				
GONSET Model 3166B Receiver,				
Manual Tuning 108-135 MHz \$45				
MOSLEY Model X-15 2-element Beam				
15, 12, 10-Meter \$55				
RCA Model WR-50B Signal Generator \$35				
FT-101ZD AM Board \$35				
W2AU Balun \$15				
SLINKY Antenna				
Audio Signal Generators 2 ea @ \$20				
LAB Signal Generators (2 ea)				
100 Hz - 30 MH @ \$25				
Marantaz AM/FM Stereo Receiver and				
Garrard Model AT-2 Turntable and other				
items available. Lets deal! Call Frank - W4NUA				
(703) 273-0032, Fairfax, VA (07)				



DAVID J. HANBURY N3GCV Truck Specialist Office (301) 948-0880

503 QUINCE ORCHARD RD., GAITHERSBURG, MD 20878 • (301) 948-0880

Call JWO Services Save on ARRL, AMECO, CALLBOOK; TI Calculators, etc.

ARRL No-Code study guide now in stock!

"Now You're Talking." Combines Novice and No-Code Technician Class
License requirements. (Lists \$19) 1-9 \$17.35; 10-up \$16.20.

91-92 REPEATER DIRECTORY (Lists \$6) 1-9 \$5.50; 10-up \$5.15

91 CALLBOOK SUPPLEMENT. One book covers the U.S. and

Foreign Callbooks. (List \$10) 1-9 \$9.00; 10 up \$8.50. Ordering information: 30¢ handling per order and actual UPS charges. (Enclose amount for estimated shipping and any over-payments are refunded with your order.)

JWO SERVICES

John W. Obradovich, W3IS

12 Hickory Place (717) 737-0850 Camp Hill, PA 07011 Mastercard/Visa

Daily to 10 p.m. and weekend afternoons
(08)

Are you interested in 6-meter (50-54 MHz) Activities? Join the Metropolitan Communications Network Radio Club, Nets: Saturday 8 p.m. (local time) on the club FM Repeater 53.250 out/52.250 in; Sunday 9 a.m. on 50.400 and 8:00 p.m. on upper side band 50.125. If you would like more information call Bob Milligan - KI4MB at (703) 533-0650 or see the Auto-Call Index for club news column.

FOR SALE: Daisywheel Printer, Radio Shack DWP 510, 15" carriage, several wheels. Excellent condition. Cost \$670 in 1985. Now looking for a good home. (703) 536-8469(08)



SHACK SALES

WANTED: Collins 32S-3/3A, 75S-3/3A/3B/3C, 312B-4/B-5, 516F-2, 30L-1, Working or not working, inluding Junkers. Call Harry Kaklikian - W4ACN, 4941 Andrea Avenue, Annandale, VA 22003 (703) 978-4402 (08)

WANTED IN ANY CONDITION:

COLLINS RECEIVERS 51J4 and 75A Series
COLLINS 32V Transmitters
COLLINS 30K Transmitters
Howard Mills - W3HM. Telephone:
(at work) 202-647-2428, Washington DC
(home after 7:00 p.m.) 304-876-6483,
RT#3, Box 712, Harpers Ferry, West Virginia
25425 (08)

FOR SALE: COLLINS 30L-1 Amplifiers, Completely rebuilt with new filters, diodes and tubes. Full output on all bands including 10-meters. A great buy at \$600 Harry Kaklikian - W4ACN, (703) 978-4402, Annandale, VA

FOR SALE: Crystals for Collins to include Hambands, WARC, MARS, Shortwave and hard to find 10 Meter crystals. Call Harry Kaklikian - W4ACN, 4941 Andrea Avenue, Annandale, VA 22003 (703) 978-4402 (08)

FOR SALE: Four Band Trapped Vertical, HUSTLER Model 4BTV. In good condition. John - W4HU (703) 536-9537 (08)

Gaithersburg F.A.R. FEST September 8



Gaithersburg

805 Russell Ave. Gaithersburg, MD 20879

301-670-0008

WANTED: Quote on Loudenboomer Amplifier, Used 3-400Z, Unique wire tuner, S-line Collins equipment. Buying surplus used tubes. Call anytime. Milt Levy - W5QJT, 539 McCarty, Apt 507, San Antonio, Texas 78216. Phone (512) 366-3290 evenings.

Attention Amateur Radio Newsletter Editor. AMATEUR RADIO NEWS SERVICE is an organization of publisher and editors of Amateur Radio newletter and members engaged in public relations. Its purpose is to assist editors in any way possible. For information, write to Lee Knirko - W9MOL, 833 Park Plaine, Park Ridge, Illinois 60068

"RADIO INSTALLATIONS"

Clean - Neat - Professional If you want it done right Call us. Herm - K2LEQ/3 (301) 952-1414 (072)



SLIDE RULES WANTED

Bob Hill, NK3W

200 Agnes Lane, Linthicum, MD (301) 789-4772 21090-1702



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THE INTERNATIONAL ORGANIZATION OF PROFESSIONAL RADIO TELEGRAPHERS

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7910 WOODMONT AVENUE SUITE 1110 BETHESDA, MD 20814 (301) 852-5040

SKYPOINT HAM CENTER, LEESBURG, VA

Skypoint Ham Center 15 C Catoctin Circle SE Leesburg, Va 22075 1-703-777-9188

- * Large inventory of used ham gear available..up to date & vintage!
- * Professional service with modest rates and quick turnaround!
- * Well stocked inventory of new rigs, station accessories and antenna needs!
- * Collins equipment a specialty!
- * Estate liquidations and sales welcomed!
- * Customer satisfaction a priority!

Vintage Corner

Collins 651-S1
Heath Apachie
National NC-300
National NC-303
Collins 75A-2
Collins S/Line dlxe
Collins KWM-2A
Heath Maurader
Heath DX-60B
Gonset G-50
Gonset GSB-101
TMC-GPR-90

Many more items to numerous to list!

If you're looking for a nice clean used rig come see us. We get new hams on the air at moderate prices!!

MONTHLY FEATURE

PRICE REDUCTIONS CONTINUE!

AUG 91

SPECIAL PRICE REDUCTIONS ON ALL ANTENNAS, VHF UHF HAND HELDS, MOBILES, AND LINEAR AMPS. WE CARRY THE ISOTRON ANTENNA.

WE CARRY THE ISOTRON ANTENNA.

IF YOU HAVE A SPACE PROBLEM, THESE
ANTENNAS WILL GET YOU ON THE AIR!

STORE HOURS:

Sat. 10 - 6

Tue-Thur...10 - 6
Fri...12 - 9



ACCEPTED

VISA

Our store is located at 15 Catoctin Circle between Rt 7 & King Street. Location is at the Harco Bldg just north of the post office. Look for our antennas!

AUTO-CALL POLICY

PRODUCTION POLICY

Copy for Auto-Call will be accepted in any form - handwritten, typed, compatible computer disk or modem. All hard copy is retyped to preserve uniformity of style in the magazine. We use Word Perfect 5.1 word processing program, Hayes compatible modem (300 or 1200 baud) and can use either 3½" or 5½" MS-DOS diskettes.

In determining space requirements, figure about 600 words per page (50 lines at 12 words per line), including the space taken up by headings, photographs, etc. Either black-and-white or color photos can be used as long as the contrast is good. Master copy, which is to be reproduced directly, should be in black ink on white paper and should be in proper page ratio. (Copy space is 7" wide by 9" high.) Copy can be reduced or enlarged as necessary.

Columns from Foundation member clubs are eagerly solicited and any items of general Amateur Radio interest are most welcome. The editor does reserve the right to edit or reject any portion of any copy submitted and to make minor changes to make copy fit available space.

SHACK SALES

Deadline for copy is the 5th of the month preceding the publication date. Shack Sales will NOT be accepted over the telephone. Full address must be provided for our reference but need not be published. Each ad must include the call sign or the full name of the advertiser. If the full address in not included. we prefer to include the city along with a telephone number so that readers will know whether a long-distance charge is involved. The entire telephone number - including city and state - is counted as only one word. We do not count postal zip codes. Otherwise, each word, abbreviation, model number or group of letter/numbers is counted as one word. Remittance must accompany each ad.

See next column for additional information on advertising. For further information, phone the Auto-Call editor at (703) 536-8469, McLean, VA.

ADVERTISING

SHACK SALES

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Special headings or special spacing may be used (e.g., one item per line) but such ads are charged at a column inch rate - \$1.00 per column inch for non-commercial ads, \$5.50 per inch for commercial vendors and nonsubscribers.

Full name and address must be provided with each ad but need not be published. No ads will be accepted over the telephone. Since no effort is made to investigate advertisers, no warranty can be implied.

DISPLAY ADS

DISPLAY ADS are "boxed" and may contain artwork or photographs. They may be placed along with the Shack Sales or displayed in other sections of the magazine. Requests for specific locations will be honored if practical but cannot be guaranteed.

Display ads are charged according to size and duration of run as shown below. All advertising must be pre-paid for at least the current month.

Rates per Issue					
Page Co	olinch	1 Year	6 Times	3 Times	1 Time
Full	18	\$75.00	\$90.00	\$100.00	\$105.00
1/2	9	55.00	65.00	71.00	75.00
1/3	6	40.00	46.00	51.00	54.00
1/4	41/2	33.00	38.00	41.00	43.00
1/6	3	22.00	26.00	28.00	30.00
1/8	214	17.00	20.00	22.00	23.00
1/9	2	16.00	19.00	21.00	22.00
1/18	1	8.50	10.00	11.00	11.50

Based on camera-ready copy. Extra charges for halftoning photos and for in-house artwork or layout.

Copy must be received by the 5th of the month preceding publication date.
(e.g., Copy for August issue must be received by 5 July)

All Advertising Must be Pre-paid



Atlantic Division Director Hugh Turnbull, W3ABC 6903 Rhode Island Avenue College Park, MD 20740 Phone: (301) 927-1797

Roanoke Division Director John Kanode, N4MM Rt 1, Box 73-A Boyce, VA 22620 Phone: 703-S37-1340

AUTOCALL

AUTO-CALL Magazine P.O. Box 7612

Falls Church, VA 22040-1452

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The state of the s	dil 1 subs	scription to Auto-Call	
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ADDRESS			-
CITY	STATE	ZIP	-

GIFT

RENEWAL

Make check payable to the Foundation For Amateur Radio

AUGUST 1991

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				Anne Arundel	2 Mobileers Shenandoah	3 Stafford St.Mary's Picnic EXAMS Middletown, VA
4	5 Adams Dept of State	6 Antietam BRATS PG Wireless	7 BARC MARC	8 Mt Vernon No VA	9 Alexandria SMARC Vienna	10 Stafford EXAMS Anne Arundel Harrisonburg, VA
11	12 PVRC	MADRAS Fauquire	14 Laurel (Inf) Pentagon S. Patuxent	Anne Arundel QCWA #20	16 RCARA Shenandoah	17 Capital City Stafford Stafford Tri CountyEXAMS_ Laurel Hempton, VA
18	19 SPARC EXAMS Annapolis, MD	20 Antietam Arlington Woodbridge	21 BARC Goddard MARC	22 St Mary's	23 New Carrollton Vienna	24 Stafford
25 Adventists So. Pax Hamfest	26	27 Columbia MADRAS	28 Laurel QCWA #20	29	30	31 Stafford

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Nonprofit Organization U.S. Postage Paid Arlington, VA 22210 Permit 757

AUTO-CALL

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